



Joint Legislative Audit Committee
Office of the Auditor General



REVIEW OF DATA PROCESSING USAGE IN THE EXECUTIVE BRANCH

A review of computer usage in the Executive Branch by Arthur Young and Company has revealed that while the Executive Branch spends over \$93 million on computer services annually there is little comprehensive statewide EDP planning, coordination and cooperation.

In addition, opportunities exist for consolidating some of the State's data processing functions, and a State and Consumer Services Agency Consolidated Data Center appears warranted.

**REPORT TO THE
CALIFORNIA LEGISLATURE**



California Legislature

Joint Legislative Audit Committee

GOVERNMENT CODE SECTION 10500 et al

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May 9, 1979

834

The Honorable Speaker of the Assembly
The Honorable President pro Tempore of the Senate
The Honorable Members of the Senate and the
Assembly of the Legislature of California

Members of the Legislature:

Your Joint Legislative Audit Committee respectively submits the audit report of Arthur Young and Company on the use of computers in the Executive Branch.

Arthur Young and Company identifies that there is little statewide comprehensive EDP planning, coordination and cooperation. In addition, they indicate that the State's data centers can be consolidated and thus recommend that a State and Consumer Services Consolidated Data Center be considered.

In light of the fact that California will pay over \$93 million in fiscal year 1978-79 for computer services in the Executive Branch alone, the recommendations contained in this report should receive close legislative scrutiny.

Respectively submitted,

RICHARD ROBINSON
Assemblyman, 72nd District
Chairman, Joint Legislative
Audit Committee

State of California

**California Legislature
Joint Legislative Audit Committee
Office of the Auditor General**

**Review of Data
Processing Usage
in the Executive
Branch**

April 30, 1979

ARTHUR YOUNG

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I. SUMMARY

I. SUMMARY

The Legislature intends for the State to effectively and economically use electronic data processing (EDP) on the basis of a planned, coordinated and cooperative effort among the agencies. Its mandate includes "sound policies, effective implementation practices and adequate management controls", and requires that a master plan be developed and continually updated. The master plan is to "provide for consolidation and optimum utilization of electronic data processing equipment."

This study, conducted in the fall and winter of 1978, examined for selected agencies in the Executive Branch of State government: (a) the extent to which EDP applications are used, (b) the cost of such applications, (c) the potential for eliminating unnecessary data processing effort, and (d) the potential for additional data processing consolidation.

Approximately 1200 applications are processed for 47 Executive Branch units at eight computer centers. These applications and those processed at a number of service bureaus are budgeted to cost the State \$93 million in Fiscal 1978/79. Of this amount, personnel costs approximate 48 percent, while computer processing and equipment related costs represent approximately 32%. Consequently, the thrust of our recommendations emphasize the efficient use of personnel and the cost savings that can result from this emphasis.

The study revealed that EDP planning is basically limited to the department level and is reflected in departmental annual Information System Plans (ISP) submitted to the Department of Finance. The statewide master plan has not been updated since May 1970. A statewide EDP planning and coordination effort is needed to minimize unnecessary effort and the excess personnel costs which result from duplicate application development. Therefore, our recommendations include:

- . Establishing a statewide data processing planning and coordinating organization
- . Maintaining the Inventory of Applications as a reference aid to preclude redundant development effort.

Teale Data Center is operating at its current capacity. Its level of service is continually deteriorating as the work load increases. Capacity limitations make it impractical to use the Teale Data Center to process applications currently being run on other State computers. Consequently, we recommend:

- . Transferring selected Teale Data Center processed applications to computers with available capacity
- . Developing a statewide master plan which could preclude any State computer center from curtailing service due to capacity limitations
- . Developing contingency plans which could be used to smooth the effects of unanticipated demand.

The Franchise Tax Board computer center currently is operating with available capacity. A transfer of applications from the Teale Data Center (TDC) to the Franchise Tax Board (FTB) would benefit both the remaining users at TDC and those transferred to FTB. Therefore, we recommend:

- . Transferring the State and Consumer Services Agency applications from TDC to FTB
- . Establishing the Franchise Tax Board Computer Center as the State and Consumer Services Agency Data Center.

The Board of Equalization is using older technology equipment which should meet their capacity needs through the early 1980's. Consolidation into existing computer centers at this time does not appear practical. Therefore, we recommend postponing consolidation of that facility to a later date.

The State uses considerable time-sharing computer resources to develop new applications and process various time-shared applications. The need for a time-sharing computer center is supported by both the TDC Feasibility Study report and the number of scientific and engineering applications found in this study. Scientific and engineering processing will cost approximately \$4 million in fiscal 1978/79. Consequently, we recommend:

- . Supplementing the TDC time-sharing feasibility study to include the scientific and engineering applications.

The applications reviewed by this study were grouped according to the generic type which most closely corresponds to the purpose and function of the application. Analysis of these groupings shows that there are multiple applications with similar purposes and while it may be possible to consolidate some of these applications, it is not practical to do so.

Applications with similar purposes are being developed by more than one agency and/or department. To more effectively utilize personnel, this redundant development activity should be prevented. We therefore recommend that those potentially redundant efforts identified by this study be considered for consolidated development projects.

Finally, we identified a total of forty applications estimated to cost \$301,000 that were described as being of little value. We recommend the agencies responsible for these applications should justify them or eliminate them.

II. INTRODUCTION

II. INTRODUCTION

In response to Resolution 834 of the Joint Legislative Audit Committee, Arthur Young & Company conducted a review of data processing applications in selected State agencies which use the Stephen P. Teale Consolidated Data Center (TDC) and seven other State computer centers. This review was conducted under contract to the Auditor General under the authority granted him by the Legislature and Government Code Section 10527.

Study Objectives and Scope

The general purpose of the review was to analyze the services provided to the Executive Branch of State government by the Teale Data Center and seven other State computer centers, and to determine the actual use of these services by organizational units within this branch of government.

The specific objectives of the review were to:

- . Determine the extent to which applications processed by the Teale Data Center go unused by State agencies
- . Determine the cost of producing such applications
- . Determine the potential for eliminating unnecessary data processing efforts
- . Determine the feasibility of using the Teale Data Center to process applications currently being run on other State agency computers or vice-versa
- . Determine the extent of computer operations in other State agencies including an identification of; (1) computer systems in existence, (2) the acquisition or rental cost of such equipment, (3) the personnel and associated costs to operate the systems, and (4) the costs of building space to house the systems.

The scope of the study was limited to units of State government within the Executive Branch. A list of included organizational units is provided in Exhibit I on the following page, together with the Department of Finance reporting code that we utilized in our work. The study specifically excluded a number of major EDP users in State government, such as the University of California, the State College and University System, other colleges and schools, and all criminal justice-related applications. Mini-computer applications within the Executive Branch also were excluded from our study.

The eight State computer centers included in our analysis are listed below:

- . Teale Data Center
- . Franchise Tax Board
- . Office of the Controller
- . Department of Motor Vehicles
- . Department of Water Resources
- . Board of Equalization
- . Public Utilities Commission
- . Health and Welfare Agency Data Center.

Methodology

Prior to this project, a list or inventory of data processing applications in the Executive Branch did not exist. To identify the applications, we first surveyed 47 organizations in the Executive Branch. This survey provided basic information on EDP applications which allowed us to then develop a second questionnaire to obtain detailed information relative to each application and the reports it produced. We coordinated the development of this questionnaire with representatives of the State Data Processing Management Office and included additional

STATE ORGANIZATIONS INCLUDED IN THE STUDY

<u>Organization</u>	<u>Reporting Code</u>
Air Resources Board.	006
Conservation	012
Controller	014
Corporations	018
Education.	020
Energy Resources Commission.	021
Finance.	022
Fire Marshall.	024
Forestry	027
General Services	028
Highway Patrol	030
Industrial Relations	032
Insurance.	034
Parks and Recreation	044
Personnel Board.	046
Planning and Research.	050
Postsecondary Education Commission	051
Public Employees Retirement System	052
Public Utilities Commission.	054
Real Estate.	056
Savings and Loan	060
Secretary of State	062
Teale Data Center.	064
Teachers Retirement System	066
Transportation	068
Treasurer.	070
Veterans Affairs	072
Water Resources.	074
Water Resources Control Board.	076
Alcohol and Drug Abuse	104
Employment Development	116
Health Planning and Development Office	122
Health Facilities Commission	125
Rehabilitation	130
Social Services.	132
Office of Emergency Services	136
Office of Traffic Safety	140
Department of Health Services.	141
Department of Mental Health.	142
Department of Developmental Services	143
Consumer Affairs	158
Equalization	164
Food and Agriculture	166
Franchise Tax.	168
Housing and Community Development.	172
Motor Vehicles	180
Student Aid Commission	184

information which would be helpful to that office. The questionnaire was tested within selected State agencies, revised according to the test results, and then distributed to the data processing management personnel in each organization listed in Exhibit I.

After issuance of the questionnaire we learned that a number of agencies did not have detailed report information and would have to expend considerable effort to develop it. Because elimination of reports would essentially result in paper savings and most probably would not allow for the elimination of computer systems, the expected benefit from this analysis did not appear to be as great as the cost of obtaining the data. Consequently, the request for detailed report information was withdrawn with the Auditor General's concurrence.

After receiving the questionnaire responses, we developed a stratified sample of responses and tested the accuracy of questionnaire information through on-site interviews and records reviews. The questionnaire responses then were key-entered onto magnetic tape and various computer listings were prepared and analyzed.

Thereafter, we assessed the capacity of the various computer centers to determine their ability to accept additional work. This enabled us to determine the practicality of transferring applications among computer centers in order to effect a consolidation.

Limitations On Information

The costs of data processing applications in the Executive Branch are shown in Exhibit II. These totals are based on the Inventory of Applications Report and represent the cumulative totals of the individual application estimates for Fiscal

FISCAL YEAR 1978/79 BUDGETED EDP COSTS (IN THOUSANDS)

	DATA CENTER	%	DEPT EQUIPMENT	%	DEPT PERSONNEL	%	DEPT OTHER	%	TOTAL COSTS	%	
COMPUTER CENTERS	PRODUCTION	\$18,098	87%	\$1,813	76%	\$27,887	80%	\$12,524	86%	\$60,322	83%
	NEW DEVELOPMENT	2,732	13%	564	24%	6,915	20%	1,972	14%	12,183	17%
	OTHER	132	-	0	-	288	-	14	-	434	-
	TOTAL	\$20,962	-	\$2,377	-	\$35,090	-	\$14,510	-	\$72,939	-
	% OF TOTAL	29%		3%		48%		20%		100%	
CONTRACTS	Service Bureau Time-Share Total								\$ 19,818 98 \$ 19,916	-	-
	TOTAL								\$ 92,855	-	-

Year 1978-79. The detailed applications questionnaires were completed by data processing staff in the various agencies. Some of the agencies maintain detailed cost data by application; others do not. Therefore, in many cases the individual cost and personnel data are estimates with little actual supporting detail. In reviewing the 1,200 questionnaire responses, we found six major errors which caused us to reduce reported costs by approximately \$82 million. A number of agencies entered no cost or personnel data at all. Errors such as these and the lack of supporting data by many agencies makes it necessary for us to qualify the data as an estimate of total costs, rather than actual costs.

The cost figures for the operation of the eight computer centers are shown in Exhibit III. These costs, which are typically included in total costs, were determined using the August 1978 Information Systems Plan (ISP), detailed building space data, and acquisition cost data provided by each organization. The ISP's for most organizations contained some applications-related costs (e.g., for data entry and applications programming). Consequently, these costs were subtracted from the ISP amounts to achieve a more comparable cost of computer operations for each organization involved. Thus, the computer center costs are those which can be directly attributable to computer operations (including a pro-rated portion of management, administrative, and other overhead costs).

Because the cost figures are from two different sources, they are not directly comparable. Exhibit II represents the total costs for applications development, maintenance and processing, and the Service Bureau and Time Sharing Expenditures for Fiscal Year 1978-79. Exhibit III represents the costs of operating the eight computer centers.

ESTIMATED COMPUTER CENTER COSTS ^{1/}
(IN THOUSANDS OF DOLLARS)

COMPUTER CENTERS (COMPUTER EQUIPMENT)	ACQUISITION COST OF OWNED EQUIPMENT <u>2/</u>	FISCAL YEAR 1978 - 1979				
		EQUIPMENT <u>3/</u>		PERSONNEL <u>4/</u>	BUILDING SPACE <u>5/</u>	ASSOCIATED COSTS <u>6/</u>
		PURCHASE COSTS	LEASE AND MAINTENANCE COSTS			
				TOTAL		TOTAL ESTIMATED COMPUTER CENTER COSTS
Board of Equalization (Univac Series 70/6 and 45)	\$ 361	0	\$ 1,113	\$ 1,113	\$ 35	\$ 2,398
State Controller (IBM 1401 and 7074)	2,057	0	51	51	19	769
Department of Motor Vehicles (Univac Series 70/6 and 55)	6,280	1,274	3,018	4,292	91	8,001
Department of Water Resources (Control Data Corp. 3300)	1,227	0	445	445	43	1,203
Franchise Tax Board (Amdahl 470/V5)	4,426	946	1,178	2,124	186	4,450
Health and Welfare Data Center (IBM 370/165 and 158)	1,419	464	2,021	2,485	174	6,083
Public Utilities Commission (Burroughs 1726)	15	6	84	90	3	412
Teale Data Center (IBM 370/168)	12,094	3,076	4,406	7,482	214	13,306
TOTAL	\$27,879	\$5,766	\$12,316	\$18,082	\$765	\$36,622

^{1/} These are the estimated costs specifically related to the operation of the computer center at each organization. They do not include application related costs.

^{2/} Acquisition costs are based on historical records or the organization's best estimate (for some equipment more than ten years old) of the actual cost to the organization of acquiring its presently owned equipment. Lease payments where purchase options exist were not included unless the option has been exercised and the equipment is actually owned. Also, where equipment was acquired from another state agency, the cost to the present owner was used rather than the original purchase price.

^{3/} Equipment costs include those for peripheral devices, terminals, data communications, computer output microfilm equipment, EAM equipment, and other miscellaneous equipment as well as the costs for central processing units. Those costs related to data entry equipment, satellite processors, special purpose systems, and mini-computers were excluded.

^{4/} Computer center personnel costs include operations and software support personnel plus a pro rata share of the management, administrative, and customer liaison costs. Costs for data entry personnel and application programmers (plus a pro rata share of management, administrative, and customer liaison costs) were excluded from the computer center personnel costs.

^{5/} Building space costs were determined by multiplying the cost per square foot of floorspace by the estimated floorspace required to house the computer center equipment and personnel. They do not include data entry or other applications related building space costs.

^{6/} Associated costs include all costs other than equipment, personnel, and building space that are associated with the operation of the computer center. The following were included: costs for data communication line facilities, a pro rata share of the departmental overhead cost (based on data provided by each center or on the computer center personnel costs as a percentage of the total personnel costs), and the portions of the commercial contract, inter-agency agreement, facility, utility, supply, and miscellaneous costs that were not related to data entry or other applications processing.

Our work affected the operations of 47 units of State government. We appreciate the many courtesies extended to us and the excellent cooperation we received from individuals within these organizations. The work could not have been accomplished without their support.

I I I . BACKGROUND

III. BACKGROUND

The Legislature recognizes that " . . . electronic data processing in State government is necessary to insure the highest level of efficiency and economy" (Government Code, Section 11750). "Effective and economical use of this management tool requires comprehensive planning, coordination and cooperation among agencies and levels of government" (Government Code, Section 11700). The Government Code also requires a " . . . master plan for the use of electronic data processing within state government . . . that this plan be continually updated, (and) that the master plan provide for consolidation and optimum utilization of electronic data processing equipment, (and) maximum practical integration of electronic data processing systems" (Section 11700, et seq.).

The Government Code mandates a State Electronic Data Processing Policy Committee whose functions and responsibilities are to "Review and accept or reject recommendations formulated and proposed by the Office of Management Services, including policies, procedures, standards and a master plan for optimum utilization of electronic data processing systems for State government." (Section 11721).

The need for comprehensive planning is also recognized by the Department of Finance (DOF). In its January 1979 report to the Joint Legislative Budget Committee on the significant issues which appear to be limiting the State's effective use of electronic data processing technology, DOF concluded that "A State EDP master plan is needed which provides departmental guidance based upon the current environment, departmental needs, and overall state EDP objectives."

Finally, the Governor supports the effective use of electronic data processing. In his recent Inaugural Address of January 8, 1979 he stated "we are in the midst of an information revolution that draws its center from the computer and communication industries of California . . . the challenge will be to use the new tools to . . . make government leaner as it becomes more effective."

IV. DATA PROCESSING IN THE EXECUTIVE BRANCH
OF STATE GOVERNMENT

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We reviewed data processing in the Executive Branch by identifying applications in the selected State agencies which use the Teale Data Center and the seven other State computer centers previously described. We collected detailed data processing and budgetary information relative to each application by requesting each user to respond to a Detailed Application Questionnaire. The information collected from each Detailed Application Questionnaire (Appendix A) was used to develop our conclusions regarding the potential for consolidating data processing applications in the State. Appendix A provides instructions on how to complete the questionnaire and interpret the coded information.

The Inventory of Applications Report is a 1200 page document providing the technical and budgetary information in agency order for each application. The applications include production systems, as well as systems in the development process. The Inventory of Applications Report is available through the Auditor General's Office. The Agency and Application Report (Appendix B) lists each organizational unit and its applications in alphabetic order. The Generic Type Report (Appendix C) groups the agency applications by the generic type assigned by each user. This provides a means of locating applications with similar objectives as defined by the generic type.

We conducted a test of selected responses to the Detailed Application Questionnaires and found that the agencies made a conscientious and reasonable effort in completing the questionnaires. However, the accuracy of the information varied from agency to agency depending upon the quantity and quality of the information the agencies maintain.

Applications Priority

According to the agencies, a substantial majority of existing and soon to be developed EDP applications are valuable to meeting agency objectives. This statement is based upon questionnaire responses concerning the funding priority for each application. Exhibit IV on the following page shows the actual distribution of the funding priorities. The first four funding priorities, ranging from "required by law" to "contributes to agency operations," were established by the responding agencies for 96 percent of the applications reviewed.

Executive Branch EDP Costs

For the agencies included in this study, the total cost of data processing service approximates \$93 million, as shown previously in Exhibit II. The agencies are expending a substantial portion of their data processing budget at the eight computer centers on the development of new applications, i.e., 17 percent of the total costs and 20 percent of the personnel costs. This indicates a considerable and continuing expansion of data processing.

The distribution of costs among the various categories substantiates a trend in data processing costs. Personnel costs represent 48 percent of the total costs while computer processing and equipment-related costs represent approximately 32 percent. Exhibit V, graphically portrays this distribution for the Executive Branch, and compares it with national averages.

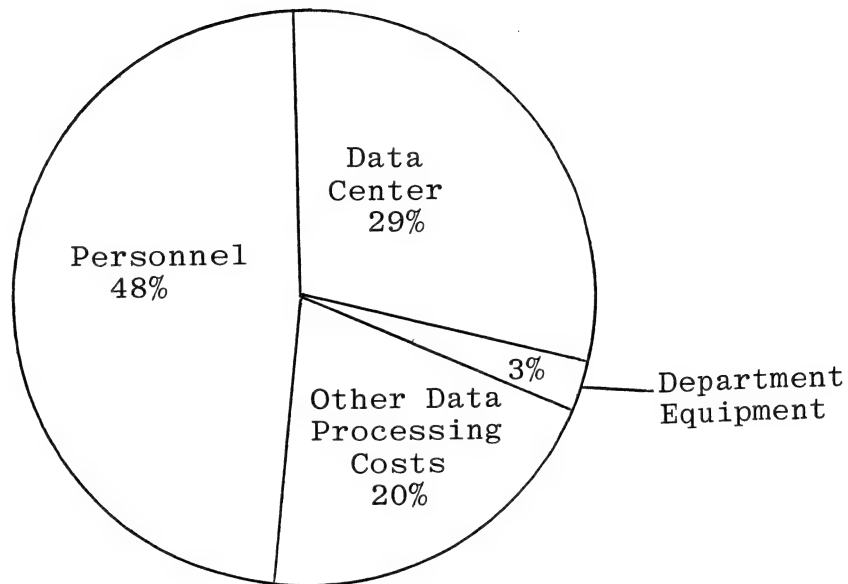
The national averages were developed in a study conducted by International Data Corporation, a leading data processing research organization, which projected 1979 data processing expenditures to be apportioned at 51 percent personnel and 38 percent equipment-related.

DISTRIBUTION OF FUNDING PRIORITIES FOR EDP APPLICATIONS

<u>Funding Priority</u>	<u>Description</u>	<u>Percent of Total</u>
1.	Required by Federal or State Law.	28%
2.	Invaluable to the Agency. Could Not Do Without.	20%
3.	High Priority. Would be Difficult To Do Without.	25%
4.	Routine Priority. Application Contributes to Agency Operations.	23%
5.	The Application is Nice to Have But Could Be Done Without.	3%
6.	Of Little or No Value. Application Could Easily Be Done Without.	0%
	Invalid Responses	<u>1%</u>
		100%

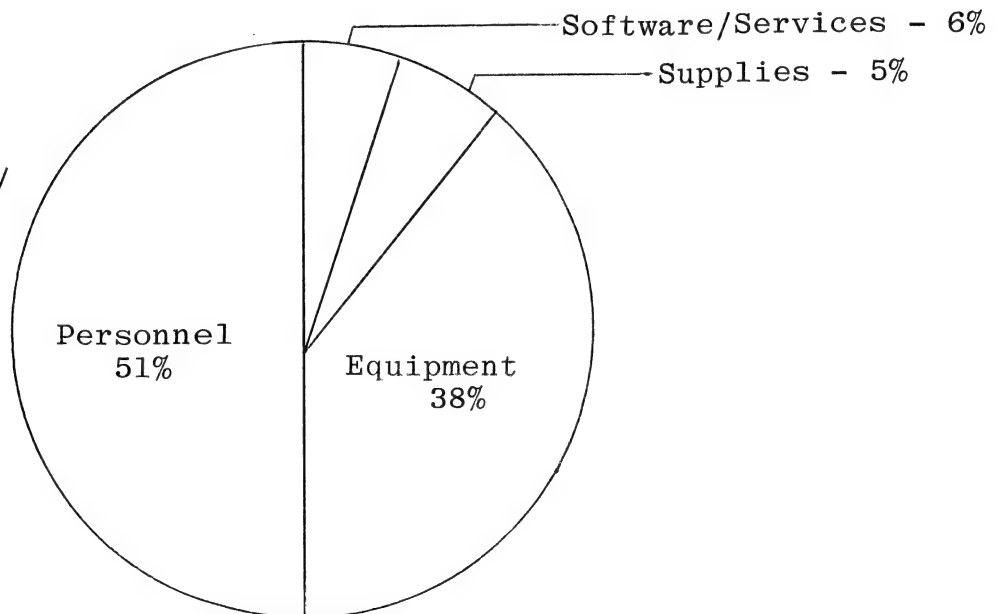
DISTRIBUTION OF DATA PROCESSING COSTS

State Executive 1/
Branch



1/ Source: Detailed Application
Questionnaire Corrected Cumulative Totals

Projected 1979 2/
National Average



2/ Source:
International Data Corporation

A substantial amount of State funds is spent on service bureau and time-sharing services. Exhibit VI on the following page shows the FY 78/79 budgeted computer service bureau and time-sharing charges by organization.

Transferability of Applications

The use of higher level programming languages such as COBOL places the State in the position of having a high degree of transferability among data centers. Exhibit VII, following Exhibit VI, shows that most applications are written in COBOL or other higher level languages such as Mark IV, FORTRAN IV, and PL1. The use of these languages enhances the portability of applications among Executive Branch computer centers.

BUDGETED SERVICE BUREAU AND TIME-SHARING EXPENDITURES

<u>Executive Branch Agency/ Department</u>	<u>Expenditure</u>	<u>Service Center</u>	<u>Type of Service</u>
Education	100,000	Stanford	SB
Secretary of State	360	California Computer Service	SB
Finance	10,000	ADP Network	SB
General Services	2,500	Benetech	SB
	2,400	Research Inc.	SB
Conservation	1,000	U.C. Berkeley	SB
	10,000	U.C. Berkeley	TS
California Energy Comm.	40,000	Control Data Corp.	SB
Housing & Community Development	15,000	U.C. Davis	SB
	10,000	Service Bureau Corp.	SB
Forestry	1,425	San Juan Unified S.D.	SB
	6,480	U.S. Dept. of Agriculture	TS
P.U.C.	90,000	CDC Cybernet Service	SB
California Student Aid Commission	7,800	John Waddell & Co	SB
Savings and Loan	8,000	National CSS, Inc.	
	7,500	Remote Computing Corp.	SB
	11,000	SREA Market Data Center, Inc.	TS
Cal Trans	34,000	Lawrence Berkeley Lab	SB
	35,000	Tymshare, Inc.	TS
Development Disability	4,923	U.C. Berkeley	SB
	13,150	Lawrence Berkeley Lab	SB
	2,000	U.C. Berkeley	TS
	8,767	Lawrence Berkeley Lab	TS
Water Resources	20,000	Cybernet	SB
Board of Medical Quality Assurance	75,000	Optimum Data	SB
Food and Agriculture	32,516	U.C. Davis	SB
	975	John Waddell & Co	SB
Employment Development Department	25,000	Stanford Center	SB
	25,000	Lawrence Berkeley Lab	TS
Health Services	26,300	U.C. Berkeley	SB
	<u>\$626,096</u>		
Employment Development Department - L.A./ Orange Job Bank	\$ 2,000,000	SDC Develop. Corp.	SB
Employment Development Department - San Diego Job Bank	90,000	San Diego Univ. Foundation	SB
Health Services - Medi- cal Claims Payment	<u>17,200,000</u>	Medical Intermediary Oper.	SB
	<u>\$19,290,000</u>		
Total Service Bureau Expenditures	\$19,817,822		
Total Time Share Expenditures	<u>98,274</u>		
Total SB and TS Expenditures	<u>\$19,916,096</u>		

PROGRAM SOURCE LANGUAGE DISTRIBUTION

<u>Source Language</u>	<u>Number of Applications</u>	<u>%</u>
COBOL - American National Standard (ANS)	775	65%
Mark IV	78	7%
FORTTRAN IV	47	4%
PL1	42	4%
COBOL - Other COBOL Compilers	41	3%
ASSEMBLER - UNIVAC/RCA Spectra	31	3%
RPG	30	3%
FORTTRAN (CDC)	29	2%
ASSEMBLER - IBM 370/360 & Amdahl	26	2%
SYNTAX II	18	1%
FORTTRAN H	15	1%
Proprietary - Not Available to User	9	1%
SYNTAX I	8	1%
RPG II	3	0%
BASIC	2	0%
TPL	1	0%
FORTTRAN (Burroughs) - ANS 1966	1	0%
AUTOCODER - IBM 7074	1	0%
INCOMPLETE DATA	<u>34</u>	<u>3%</u>
	1,191	100%

V. STUDY RESULTS

V. STUDY RESULTS

A. THERE IS LITTLE STATEWIDE COMPREHENSIVE EDP PLANNING, COORDINATION AND COOPERATION

Current Status

Data processing planning among the organizations studied essentially is limited to annual departmental Information System Plans (ISP). These organizational plans are submitted to the Department of Finance and are required annually as part of the budgeting process. There is no current comprehensive statewide long range master plan as mandated by the Legislature in Government Code Section 11700 et seq. The most recent statewide Long-Range Master Plan for Electronic Data Processing was published in May 1970. While it was valuable in its own time, it has been outdated by changes in State government and EDP technology.

State government has changed such that existing legislation concerning data processing is no longer being complied with. The Office of Management Services has been disbanded. The State Electronic Data Processing Policy Committee is no longer functional and the agency designations for the four data centers do not correspond to the State's current organization. The State Data Processing Management Office has assumed some of the roles of the Office of Management Services. However, the Legislature has not assigned it the responsibility to prepare and continually update a statewide Master Plan for EDP.

Conclusion

A statewide EDP planning and coordination effort is needed. The coordination needed to minimize redundant effort and duplicate applications development can be achieved through a

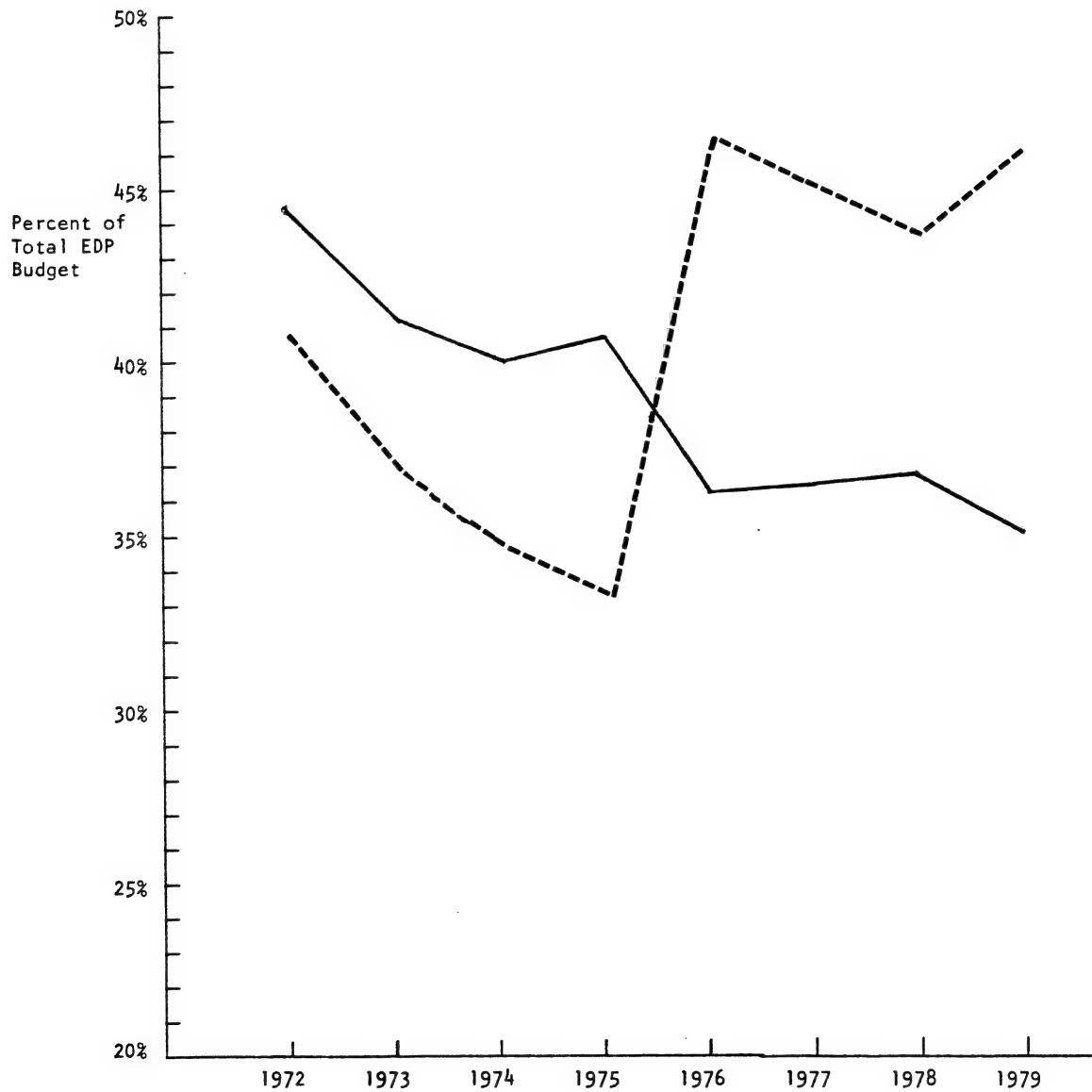
thorough and continuous planning activity. Because personnel-related costs represent the largest proportion of EDP costs, coordination is vital to achieving the most cost effective use of data processing. Exhibit VIII on the following page illustrates the relationship between computer equipment costs and personnel costs. Exhibit IX, following Exhibit VIII, portrays the cost reduction history of selected common IBM computers.

Recommendation: Establish a Statewide Data Processing Planning and Coordinating Organization

In order to maximize utilization of personnel and computer resources the Legislature should establish a statewide data processing planning and coordinating organization. The scope of this study did not include all of the data processing users within the State nor a review of all the relevant issues for such an organization. Therefore, we do not have sufficient information to recommend the specific form of such an organization. However, we do envision an organization consisting of agency-level personnel who would, through this group, coordinate data processing applications in their respective agencies. An executive of sufficient standing in government should head this organization which would meet regularly and function as a steering committee, setting objectives for the effective use of data processing in the State. One of the first objectives should be to establish guidelines and procedures to minimize redundant application development. We believe the Inventory of Applications Report could be used as a means of identifying applications similar to those being considered for development.

The planning and coordinating organization should develop a comprehensive master plan for data processing and update it annually.

USER SPENDING
COMPUTER EQUIPMENT COMPARED TO PERSONNEL
1972 - 1979

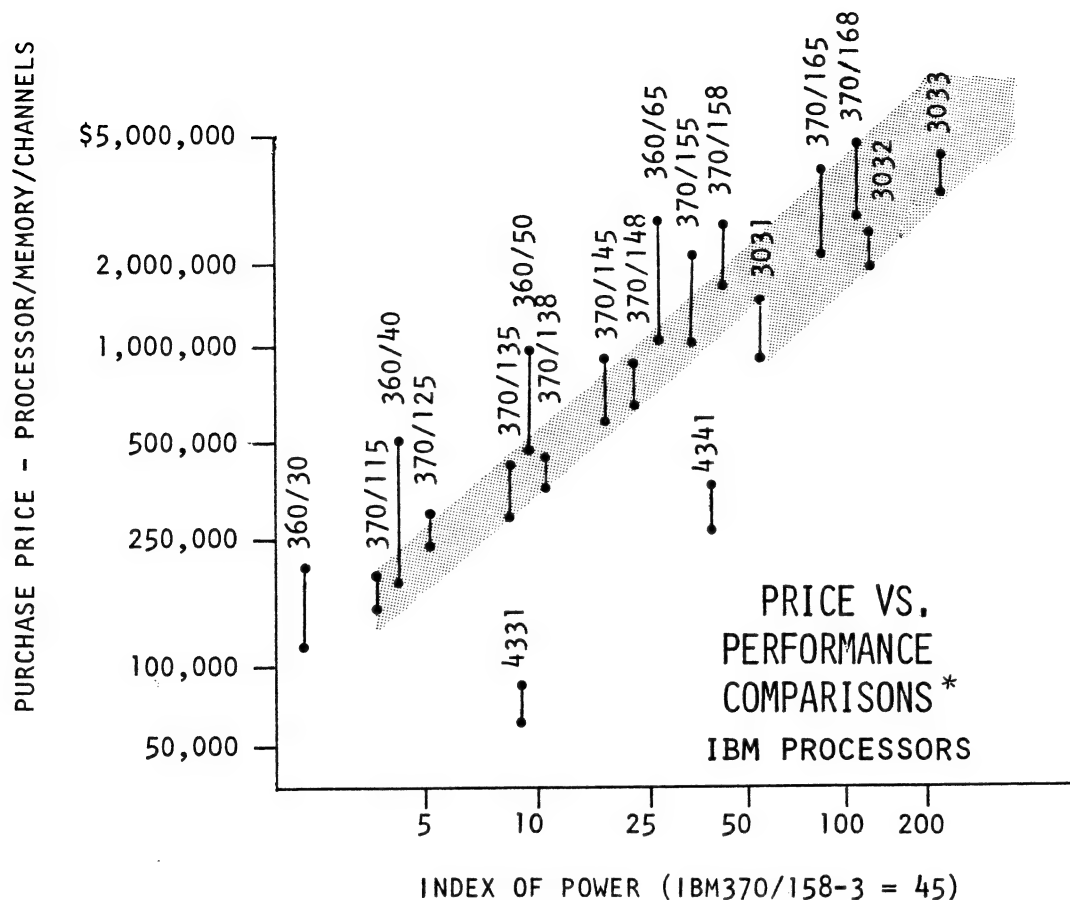


Key

Personnel Costs - - - - -
Computer Equipment Costs _____

SOURCE: International Data Corp.

COST HISTORY
SELECTED IBM COMPUTERS



Actual Cost Reduction History

AUXILIARY DISK STORAGE			COMPUTER MEMORY		
Model	Year Announced	Characters Per \$1	Model	Year Announced	Price Per Million Characters
2311	1964	300	360/30	1964	\$2,000,000
2314	1965	1,300	360/65	1965	1,500,000
3330-SD	1970	3,800	Sys/3-10	1969	1,000,000
3340	1973	5,000	370/155	1970	600,000
3330-DD	1973	5,300	370/135	1971	640,000
3344	1975	11,300	370/155	1973	300,000
3350	1975	12,800	5100	9/75	180,000
3370	1979	24,400	MOS	5/76	170,000
			Series/1	11/76	120,000
			MOS (cut)	3/77	110,000
			S/1	4/77	74,000
			8140	10/78	50,000
			8130 (64K)	10/78	18,000
			MOS (cut)	12/78	75,000
			Sys/38 (64K)	10/78	20,000
			4300 (64K)	1/79	15,000

FIGURE 1.

SOURCE: International
Data Corp.

* Note the difference in price and power over the last fifteen years as demonstrated by the IBM 360/30 and 4331 computer. The 360/30 in 1964 cost approximately \$200,000 with a power index near 2, while the 4331 in 1979 cost approximately \$75,000 and has a power index of approximately 9.

Recommendation: Maintain the Inventory of Applications

In order to ensure that the Inventory of Applications Report resulting from this study is maintained, the Department of Finance should update it through the Information Systems Plan and budgeting processes. As part of its first update, a short narrative of each application should be added to the inventory file.

B. CAPACITY LIMITATIONS MAKE IT IMPRACTICAL TO USE THE TEALE DATA CENTER TO PROCESS APPLICATIONS CURRENTLY PROCESSED ON OTHER COMPUTERS

Current Status

A prime objective of the Teale Data Center (TDC) is to economically maintain the level of data processing service required by its users. Sufficient system capacity is necessary if this objective is to be met. Unfortunately, TDC is currently in a situation where its system capacity has been reached. If there is an increase in workload, certain critical user-defined service objectives would not be met. This assessment is evidenced by the current status of three measures of level of service.

(1) Batch Job Turnaround

Batch jobs consist of applications which are "batched" for processing because their effectiveness does not require an immediate response. Typically, such applications depend on "turnaround" within an hour or two of submittal. When turnaround time becomes excessive, personnel productivity decreases.

Exhibit X on the following page is a history of batch turnaround at TDC from January 1976 through January 1979. Although several hardware and software improvements have been made, the gradual deterioration in service continues. This results in a greater expense to the State because of the ineffective use of its most costly data processing resource--people.

(2) Customer Information Control System (CICS) Response Time

CICS is a telecommunications system supplied by IBM which provides the user with a means to perform on-line, transaction-oriented processing. The important feature of an on-line system is the ability to enter and retrieve data instantaneously. The time that it takes to receive a response from the system once it has been entered is called the response time.

The State Controller's Office tracked the response time in its Personnel Information Management System (PIMS) which is run at Teale. There is a 5-7 day cut-off each month that is critical to updating Employment History data. In order to make full utilization of the personnel entering the data a 15-second or less response time is required. During the months of September 1978 and January 1979, the Controller's response times for cut-off were as follows:

SERVICE LEVEL HISTORY FOR BATCH PROCESSING
AT THE TEALE DATA CENTER

<u>Year</u>	<u>Day Shift Jobs Processed</u>	<u>Turnaround Hours</u>
Jan 1976	39,801	1.98
Feb	35,303	2.15
Mar	46,251	1.67
Apr	35,570	2.02
May	32,166	2.30
Jun	34,741	2.58
Jul	33,577	2.55
Aug	35,576	2.13
Sep	33,955	2.47
Oct	34,274	2.45 ← Memory added
Nov	35,552	1.83
Dec	40,182	1.76
Jan 1977	43,500	2.77
Feb	39,546	3.15 ← Mod III's
Mar	47,115	2.09 Added
Apr	42,709	2.17
May	44,041	2.39
Jun	48,730	3.03
July	40,213	3.44
Aug	49,454	2.95
Sep	41,798	4.38 ← MVS Conver.
Oct	Figures were not collected for	
Nov	these months	
Dec	49,276	10.38
Jan 1978	52,403	8.53
Feb	45,833	8.37 ← AP on SY1
Mar	64,429	5.01 Added
Apr	56,231	4.92
May	58,702	4.63
Jun	58,224	4.71
Jul	50,298	5.55
Aug	61,905	4.72
Sep	54,805	5.14
Oct	59,272	5.31
Nov	53,749	5.64 ← MVS System
Dec	52,077	4.98 Extension
Jan 1979	62,168	5.04

Table 1

<u>Date</u>	<u>Number of Transactions</u>	<u>Response Time in Seconds</u>
9/18	29,705	10.66
9/19	33,930	10.69
9/20	34,577	14.72
9/21	34,716	16.12 ^{*/}
9/22	34,756	9.09 -
1/15	23,551	21.50
1/16	24,653	23.54
1/17	27,372	19.85
1/18	27,112	24.99
1/19	28,560	11.47

*/ Service to batch jobs was curtailed this date to ensure response time for PIMS.

When the response time becomes excessive, time is wasted waiting for the response and the even pace of work is interrupted. Again, this increases the cost for personnel by decreasing productivity.

TDC is currently taking steps to improve this response time; however, the continued workload growth makes this effort a continuing process.

(3) Time-Sharing Option (TSO) Response Time

TSO is an option IBM supplies that is a productivity aid for computer programmers. It allows them to develop and submit computer programs quickly by using an on-line terminal. Excessively long TSO response time has a direct bearing on programmer productivity. As the response time increases, the programmer's productivity decreases.

The response time for TSO has gradually deteriorated as shown by the following table of day shift TSO processing.

Table 2

<u>Month</u>	<u>Number of Sessions</u>	<u>Terminal Connect Hours</u>	<u>Average Response Time (Seconds)</u>
May	16,602	5,861	3.94
June	16,318	6,018	4.07
July	14,741	5,424	4.56
August	18,378	6,576	4.12
September	16,934	5,606	4.20
October	19,263	6,218	4.21
November	17,231	5,727	5.41
December	17,225	5,986	5.29
January	22,161	7,891	5.29

The workload growth at TDC is continuing. The following projected growths are based on the 1978-79 Fiscal Year, user forecasts and actual usage for the first quarter of 1978. It is estimated that usage will increase by the following proportions:

<u>Type of Process</u>	<u>Annual Increase</u>
Batch	14%
CICS	30%
TSO	36%

Result of Reaching Current System Capacity at Teale

The State Data Processing Management Office published a memo to all TDC Users in February 1979 severely limiting new or additional services. This occurred because dayshift usage had reached capacity and existing processing that could be run at night or on weekends had already been transferred. Major service improvements will not occur until an additional computer is installed in October 1979.

Conclusion

TDC has reached its current capacity. User service objectives cannot continue to be met and the level of service is continually deteriorating as the workload increases. Therefore, it is not practical to use TDC to process applications currently being run on other State computers. Furthermore, it has been estimated that the current limitation for new applications development will cause usage to sharply escalate when the new development ban is withdrawn. Such occurrences are likely when demand is curtailed by artificial means.

Recommendation: To Preclude Further Curtailment of Data Processing Capability, the State Should Transfer Applications to Computers with Available Capacity

To ensure continued availability of computer resources the State should:

- . Develop a statewide master plan which could preclude any State computer center from curtailing operations due to capacity limitation
- . Provide contingency plans which could be used to smooth the effects of unanticipated demand.

C. CONSOLIDATION CAN BE ACCOMPLISHED AT OTHER COMPUTER CENTERS

Current Status

In addition to the Teale Data Center, seven other computer centers were included in our study. Findings and recommendations concerning the potential for future consolidations at the

Franchise Tax Board are discussed subsequently under this heading. The Board of Equalization, and the Department of Water Resources computer centers are addressed in subsections E and F, respectively. Additional consolidation, not already planned, does not appear warranted for the other computer operations, i.e., the Health and Welfare Agency Data Center, and the computers used at the Office of the Controller, Department of Motor Vehicles and the Public Utilities Commission. An overview of the current status of these other four organizations is provided below.

- . The Health and Welfare Data Center is in the process of consolidating all of that agency's applications within this one center. Consequently, consolidation is well underway at that agency.
- . The Payroll application processed at the Office of the Controller is scheduled for consolidation into the Teale Data Center.
- . The Department of Motor Vehicles (DMV) has sufficient data processing activity to warrant a departmental computer center. Furthermore, DMV is in the process of consolidating its computer communications activity with certain Department of Justice applications.
- . The Public Utilities Commission (PUC) computer is a relatively small machine. Conversion of applications processed on that computer to one of the State data centers would require personnel costs and a remote satellite processor at PUC, which, in all probability, would not be unlike the small computer already functioning. Therefore, consolidation does not seem warranted.

With regard to the Franchise Tax Board (FTB), it is organizationally within the State and Consumer Services Agency and operates an Amdahl 470/V5 equipped computer center. This center requires approximately 126 measurable CPU hours per month to process its work. Its current workload is approximately fifty percent of processor capacity (based on the current 3-shift per day, 5-day per week schedule). The computer in use at the

Franchise Tax Board is compatible with Teale's IBM computers and is rated as having slightly greater performance capabilities than the IBM 370/168 computer used by Teale.

The FTB computer center also serves non-FTB users on a contract basis. In fact, it provides more than half of the data processing for the Department of Consumer Affairs. However, virtually all of the other data processing for the State and Consumer Services Agency is performed by the Teale Data Center.

Conclusion

A high degree of compatibility exists between the computer used at the Teale Data Center and the Franchise Tax Board. Because TDC is at capacity and the Franchise Tax Board has unused computer capacity a transfer of applications from TDC to the Franchise Tax Board computer would benefit the remaining users of TDC as well as the users transferred to the FTB. The transfer also would utilize available computer capacity more effectively.

Recommendation: Transfer State and Consumer Services Agency
 Applications from TDC to FTB

The State and Consumer Services Agency (SCSA) accounts for approximately 10 percent of the applications processed at TDC. Because the Franchise Tax Board is placed organizationally within the SCSA, the agency's applications processed at TDC are the most logical candidate for transfer and should be transferred to the FTB computer center.

Our preliminary analysis shows that the project is feasible and may benefit the State. We estimate that the program conversion effort would cost approximately \$150,000. Additional equipment and software will be required.

We do not believe that this equipment and software will cause the total cost of transfer to exceed a one-time cost of \$500,000. However, the effect on processing turnaround and response time to Teale users and those transferred should be significant. If this improvement in response time and turnaround causes as little as a one percent personnel productivity increase, that increase alone would be worth \$200,000 annually to the State.

D. A STATE AND CONSUMER SERVICES AGENCY CONSOLIDATED DATA CENTER APPEARS WARRANTED

We previously reported that the Franchise Tax Board and the Teale Data Center computers have a high degree of compatibility. In order to equalize processing load and more fully utilize available computer capacity, we recommended that the SCSA applications be transferred to the Franchise Tax Board computer. We also reported previously that there is insufficient planning and coordination of EDP activity within the State.

Recommendation: The Franchise Tax Board Computer Center Should Become the State and Consumer Services Agency Data Center

Establishing a data center at the agency level should provide additional benefit to the departments within the agency. The Agency Secretary would have control and accountability for the data processing resources necessary to support the programs under his/her control. Agency control would facilitate data processing planning and coordination which, in turn, should improve personnel productivity by reducing redundant effort and duplicate applications development activity.

E. FUTURE CONSOLIDATION OF THE BOARD OF EQUALIZATION COMPUTER CENTER INTO ANOTHER CENTER APPEARS FEASIBLE

Current Status

The Univac Series 70 computer equipment operated by the Board of Equalization (BOE) was originally designed by RCA Corporation to be application program compatible with IBM computers. BOE does not maintain a computer utilization and billing system. Based on the utilization figures available, it appears that the BOE computers are operating at approximately 50 percent capacity. However, BOE projects its computer use will be at capacity in the early 1980's.

Conclusion

Because the Board of Equalization uses older technology, but compatible computers, and has sufficient capacity to accommodate its needs through the early 1980's, it could be considered for consolidation at a later date. Consolidation at this time seems unwarranted because Teale, the Franchise Tax Board, and the Health and Welfare Agency Data Centers are either at capacity or will be in process of a planned consolidation activity. Consequently, in our judgement consolidation of the Board of Equalization computer center into one of the previously mentioned centers should be postponed.

Recommendation: In the Early 1980's Consider the Board of Equalization for Consolidation into One of the Other Data Centers

At a later date, as the Board of Equalization computer center nears its capacity, and as technological advances renders its computers obsolete, it should be considered for consolidation into one of the other data centers.

F. A TIME-SHARING COMPUTER CENTER IS NEEDED

Current Status

The Teale Data Center conducted a feasibility study to determine if a statewide time-sharing computer system is needed. That study revealed that the State uses considerable time-sharing computer resources to develop new applications and to process various other time-shared applications. We determined during this study that 18 of the 47 agencies use time-sharing/service bureau computer centers. Excluding Medi-Cal processing and two southern California Job Bank applications, the State incurs annual costs of \$626,096 for these services.

The Teale study also states that the State's TENET time-sharing system is overloaded and can not be readily expanded or backed up because it is a one-of-a-kind system and lacks vendor support due to the bankruptcy of the TENET Company.

The application inventory compiled during this study shows a significant amount of non-time-shared scientific and engineering applications are processed by the computer centers studied. This processing, according to 1978/79 processing estimates, will cost the State approximately \$4 million this year. The Department of Water Resources and the Department of Transportation are the largest processors of scientific and engineering applications in the Executive Branch. Frequently such applications can be processed more efficiently and with more accuracy on the high-precision computation architecture computers typically used by many commercial time-sharing services. However, this information was not available to Teale and, thus, the scientific and engineering applications were not included in its study.

The Department of Water Resources (DWR) operates an older generation Control Data 3300 computer system for its own use and

for the use of others in the Resource Agency. Because of obsolescence and an estimated capacity shortage, DWR is conducting a feasibility study to obtain a new computer.

Conclusion

The feasibility study conducted by Teale and our own analysis discloses a need for a statewide time-sharing computer service. Teale's feasibility study, as approved by the Department of Finance, provides for a time-sharing service based upon two computer architectures. One architecture is to be IBM-compatible and the other is to be high-precision, computational in nature, typical of many commercial time-sharing services. Because many scientific and engineering applications often can be more efficiently processed on computers with a high precision computational architecture, those applications should be included in the study.

The fact that the Department of Water Resources is seeking additional computer capability and it is one of the largest processors of scientific and engineering applications, it appears warranted to include DWR's requirements in the State's time-sharing computer requirements.

Recommendation: Supplement the TDC Time-Sharing Feasibility Study to Include the Scientific and Engineering Applications

The Department of Finance should supplement the previous time-sharing study to include considerations of processing scientific and engineering applications at the time-sharing center. The supplemental study should specifically include the computer requirements of the Department of Water Resources. The DWR computer facility may be an appropriate center at which to establish a statewide time-sharing computer center.

G. THERE IS A POTENTIAL TO DEVELOP CONSOLIDATED APPLICATIONS

Current Status

The applications subject to this study were grouped according to the generic type which most closely corresponds to the purpose and function of the application. Appendix C lists applications by generic type and department. Analysis of this list shows that there have been multiple applications developed which have similar or closely related purposes. Additionally, a number of the applications included in Appendix C are currently under development. Some of these are of the same generic type and may be closely related, functionally. For example, the Personnel Information Management System (PIMS), which is under development, is to be a common inter-agency personnel system. However, in excess of \$1 million is budgeted in 1978/79 for new applications development by various departments for personnel-related applications.

Conclusion

It is possible to consolidate existing implemented applications. However, to do so would require further study to determine the specific differences and requirements of each department in order to include these capabilities into a common system. Such a study and the ensuing program modification activity would use personnel resources to re-implement, on a consolidated basis, applications which are currently operational. In our judgement, this does not appear to be cost-effective as only minimal savings for application maintenance would accrue.

However, applications which are under development and are of a similar purpose may be consolidated. Development of consolidated applications could result in significant personnel cost savings. Personnel costs related to new applications

development for 1978/79 are estimated to be approximately \$7 million. A small increase in productivity or corresponding reduction in personnel could yield substantial savings to the State.

Recommendation: Evaluate Applications Under Development for Potential Consolidation

An EDP planning and coordinating function should be established to facilitate inter-departmental development of common applications. Our recommendation earlier in this report regarding planning and coordination covers this point. In the interim, the State Data Processing Officer should meet with the project management of those applications under development which appear to have development consolidation potential.

The State Data Processing Officer should determine whether the application can be consolidated and, if the departments agree, assist in establishing a joint development effort for the applications involved.

The generic types of applications which are under development and may be consolidation candidates, are shown in Exhibit XI on the following page.

H. APPLICATIONS OF LITTLE OR NO VALUE SHOULD BE ELIMINATED IF NOT JUSTIFIED

Current Status

A number of agencies indicated that certain applications are of little value. Exhibit XII, following Exhibit XI, lists these applications, which were categorized under funding priority 5, "The application is nice to have but could be done without", and funding priority 6, "Of little or no value, application could easily be done without." The total estimated cost for these forty applications is \$301,000.

GENERIC TYPES OF APPLICATIONS WITH
POTENTIAL FOR CONSOLIDATION

Affirmative Action Reporting
Personnel - Training Reporting
Personnel - Personal Profits/Skills Register (exclude Job Bank)
Personnel - Position Control
Pensions - Contract & Employer Accounting
Case/Client Reporting
Program Effectiveness Evaluation (except CFIS)
Investigative Support
Inventory Control and Distribution
Manufacturing Production Scheduling and Control Continuous Process
Order Processing
Property Maintenance
Vehicle Fleet Maintenance
Vehicle Maintenance System
EDP Billing
Special Service Billing
Accounts Payable
Accounts Receivable
Financial Forecast
Overhead Allocation
Project Management and Budgeting
Property Inventory
Actuarial

APPLICATIONS OF LITTLE VALUE

HIGHWAY PATROL	MANAGEMENT TEAM SURVEY STORES & EQUIPMENT INVENTORY ST PERS BD IN-SERVICE TRNG INFORMATION & EDUCATION ACTIV CHP CADET PERSONNEL QUES. SURV. LINEAR PLOT OF EMPLOYEE RESP. CHP MONTHLY MAGAZINE LABELING
PARKS AND RECREATION	MT/ST TAPE PROCESSING
PUBLIC UTILITIES	CHARTER PARTY CARRIER FILE PUBLIC AFFAIRS KEYPUNCH PERFORMANCE STOCKROOM INVENTORY FUEL AVAILABILITY REPORTS
REAL ESTATE	DRE MAILING LIST SYSTEM
TEACHERS RETIREMENT SYSTEM	VERIFICATIONS SYSTEM VALUATION SYSTEM
TRANSPORTATION	DUPLICATE ACCIDENTS PROJ DEVELOPMENT MAN YR SCHEDU LAND SURVEYS MAP INDEX SELECTIVE RECORD MODIFICATION CARBON MONOXIDE SAMPLY SURVEY INDEX OF CONSTRUCTION CONTRACT EMERGENCY RENTAL EQUIP CAL LST CORRECTION FOR EAS NOT MAS FIL STATUS OF CONSTRUCTION PROJECT ACCIDENT INDEX REPORT WRITTEN WORKING DAYS CALENDAR PAYROLL WARRANT REGISTER FEDERAL SYST. SMALL STUDIES PROJECT DEVL.-TRAINING USERS BRIDGE COST ANALYSIS COST ESTIMATE PRINT ACCOUNTING BATCH PROCESS COMPARABLE MARKET DATA RECREATIONAL USE GAS TAX SURV.
WATER RESOURCES	LAND CLASS AND USE WELL LOGS INFORMATION ADDRESS LABEL SYSTEM
MENTAL HEALTH	COMPUTER PROGRAM INVENTORY
CONSUMER AFFAIRS	INSPECTION STATUS

Conclusion

The forty EDP applications mentioned above represent potential unnecessary data processing effort. The elimination of these applications could save the State \$301,000.

Recommendation: The Organizations Responsible for the Applications Should be Asked to Justify or Eliminate Them.

VI. WRITTEN RESPONSES TO THE REPORT

DEPARTMENT OF FINANCE
SACRAMENTO- State Data Processing Management Office
1025 P Street, Sacramento, Ca 95814

APR 25 1979

File No.: DJM-79-58

Mr. Thomas W. Hayes
Acting Auditor General
Joint Legislative Audit Committee
925 L Street, Suite 750
Sacramento, CA 95814

Dear Mr. Hayes:

Thank you for the opportunity to comment on your draft report "Review of Data Processing Usage in the State of California", dated April 12, 1979. We believe your findings on potential consolidation of application software and the list of applications of little or no value will be particularly useful. (Findings G and H.) We will act immediately to take advantage of them. Our comments on Findings A through F follow.

A. "THERE IS LITTLE STATEWIDE COMPREHENSIVE EDP PLANNING, COORDINATION AND COOPERATION"

It is true that there is no formal statewide EDP master plan. Your report did not reflect any serious consequences of this fault. We believe there has been a great deal of EDP planning and cooperative effort. Provided in Attachment one is a list of major EDP activities accomplished or underway. You should be aware that our Information System Plan, prepared by every State entity subject to Section 4 of the Budget Act, provides us with a projection of departmental EDP activities for two years. As an aside, we have been developing a more structured means of EDP planning to include guidance for inclusion in the State Administrative Manual. It is now in coordination and is due for publication by July 1, 1979. This will lead to an appropriate and well-coordinated statewide EDP master plan. This was reported to the Legislature in January 1979. We note your report refers to Government Code 11721 as mandating a State Electronic Data Processing Policy Committee. This Committee ceased to exist on January 1, 1971.

B. "CAPACITY LIMITATIONS MAKE IT IMPRACTICAL TO USE THE TEALE DATA CENTER TO PROCESS APPLICATIONS CURRENTLY PROCESSED ON OTHER COMPUTERS"

A procurement is underway to acquire additional computing power for the Teale Data Center by October 1979. Please note that serious capacity problems are encountered only on prime shift. Ample capability exists to process urgent work on second and third shifts. Attachment two is a projection of the Teale workload on prime shift. We note that only twice in the past year has TDC failed to meet the State Controller's standard response time of 15 seconds. You should also be aware that the Teale Data Center, as well as others, have been requested to prepare conceptual plans for five years for both facilities and equipment. Also, last fall TDC requested that plans for new State facilities include provision for a computing center to meet expanding needs.

C. "CONSOLIDATION CAN BE ACCOMPLISHED AT OTHER COMPUTER CENTERS"

Based upon projected computing workloads at the Teale Data Center, we see no need to spend the estimated \$500,000 to convert Consumer Services Agency applications to run at the Franchise Tax Board. We are also not positive that your estimate of available computer time at the FTB is accurate. For example, for those computers that are used for "on-line" processing, it is not unusual to find they have excess capacity when evaluated on a 24-hour basis. When viewed on a prime shift basis, the picture is often quite different. Computing resource are required when people are working. Also, a number of our centers, such as FTB and Board of Equalization, are subject to seasonal peaks. Processing support for other users cannot be guaranteed during these periods. These issues, plus the vital role of the FTB and BOE in view of the declining ratio of equipment to personnel costs, mitigate against concentrating upon optimum use of computing equipment.

D. "A STATE AND CONSUMER SERVICES AGENCY CONSOLIDATED DATA CENTER APPEARS WARRANTED"

This recommendation requires more study and coordination between the FTB and the Agency. We are not sure that the Agency has the management control over the FTB as implied by your report due to the statutory role of the FTB.

E. "FUTURE CONSOLIDATION OF THE BOARD OF EQUALIZATION COMPUTER CENTER INTO ANOTHER CENTER APPEARS FEASIBLE"

We concur. At such time as the BOE requires a replacement computer, this alternative will be evaluated. We are of the opinion, however, that the BOE is now functioning efficiently in carrying out a vital State process — collecting taxes. We are, of course, concerned with good equipment utilization, but that is not the priority issue or the high cost item from a program view.

F. "A TIME SHARING COMPUTER CENTER IS NEEDED"

We agree. What you have recommended is underway. The planning installation date is December 1979 or January 1980, depending upon site readiness.

We look forward to receiving your final report. Meanwhile, we are initiating steps to explore the potentials for eliminating redundant application software and useless reports. Please provide us with the list of reports you obtained so that we may evaluate the cost and benefits of maintaining it for future use.

Sincerely,

D. J. Metzker
D. J. Metzker

State Data Processing Officer

DJ186:em

cc: Chuck Gocke, DOF

ATTACHMENT I

MAJOR PROJECTS

INFORMATION SYSTEMS

STATUS

SCO	- PAY AND PERSONNEL	PARTIAL
PERS	- PAY AND PERSONNEL	PARTIAL
MEDI-CAL	- PROVIDER	COMPLETE
MEDI-CAL	- ELIGIBILITY	IN DEVELOPMENT
CHP	- MANAGEMENT INFORMATION SYSTEM	IN DEVELOPMENT
DMV	- VEHICLE REGISTRATION	COMPLETE
DMV	- ADMINISTRATIVE ADJUDICATION	IN DEVELOPMENT
DMV	- REMITTANCE PROCESSING	PARTIAL
DMV	- ON-LINE LICENSE RENEWAL	IN DEVELOPMENT
CFIS	- CALIFORNIA FISCAL MANAGEMENT SYSTEM	IN DEVELOPMENT
DOJ	- AUTOMATED FINGERPRINT	IN DEVELOPMENT
DHS	- IN-HOME SUPPORTIVE SERVICES	IMMINENT

EQUIPMENT ITEMS

FRANCHISE TAX BOARD	COMPLETE
DEPARTMENT OF JUSTICE	PARTIAL
CA STATE UNIVERSITY AND COLLEGES	UNDERWAY
DEPARTMENT OF MOTOR VEHICLES	UNDERWAY
BOARD OF EQUALIZATION	COMPLETE
TEALE DATA CENTER - ATTACHED PROCESSOR	COMPLETE
TEALE DATA CENTER - THIRD PROCESSOR	UNDERWAY
TEALE DATA CENTER - CENTRAL TIME SHARING PROCESSOR	UNDERWAY
STATE TREASURER'S OFFICE	COMPLETE
CALIFORNIA HIGHWAY PATROL	UNDERWAY
HEALTH & WELFARE DATA CENTER - SECOND PROCESSOR	COMPLETE
HEALTH & WELFARE DATA CENTER - REPLACEMENT PROCESSOR	UNDERWAY

FACILITIES

DEPARTMENT OF JUSTICE - NEW	UNDERWAY
HEALTH & WELFARE DATA CENTER - MAJOR	IN DEVELOPMENT

MAJOR PROJECTS (CONT'D)

MASTER CONTRACTS - CONTINUOUS

MEMORY
DISK DEVICES
PAGE PRINTERS

TAPE DEVICES
REMOTE JOB ENTRY STATION
TERMINALS

EQUIPMENT MANAGEMENT

INVENTORY COMPLETE
LEASE/PURCHASE ANALYSES

TDC	\$1,564,419	PROCESSOR	COMPLETE
DMV	\$ 351,000	PROCESSOR	COMPLETE
DMV	\$ 724,909	DISKS	UNDERWAY

REFINANCING			
FTB	\$ 193,676	PROCESSOR	COMPLETE

EXCESS SALES	\$ 592,164		COMPLETE
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SECURITY

PHYSICAL	COMPLETE
RECOVERY AND BACKUP	PARTIAL
ELECTRONIC	COMPLETE

EXECUTIVE ORIENTATION

150 + PEOPLE	UNDERWAY
--------------	----------

COMPUTER OUTPUT MICROFILM

COORDINATE WITH DEPARTMENT OF GENERAL SERVICES
ESTIMATED SAVINGS 77/78 \$1,190,600

OPTICAL CHARACTER RECOGNITION

IN DEVELOPMENT

1500 + KEY ENTRY OPERATORS

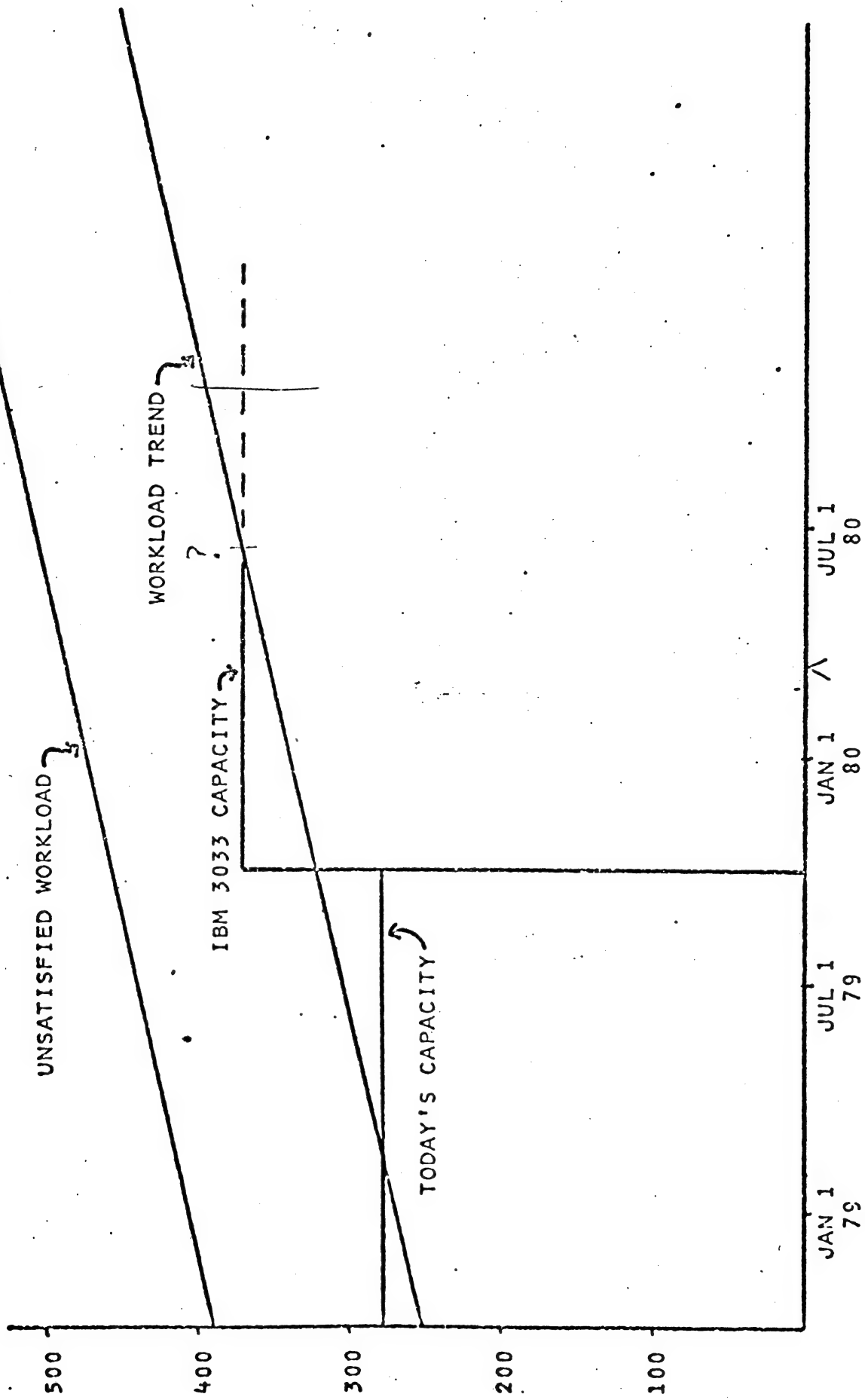
COMMUNICATIONS

DIGITAL NETWORK

-45-

COMPLETE, BUT UNSATISFACTORY

ATTACHMENT II
 TEALE DATA CENTER
 PRIME SHIFT CPU
 TRENDS & CAPACITIES



Memorandum

To : Thomas W. Hayes
Acting Auditor General
925 L Street, Suite 750
Sacramento, CA

Date : April 24, 1979

File No.:

Subject: Data Processing
Usage - Draft Report

From : Department of Water Resources

This is in response to your invitation for comments on your draft report, "Review of Data Processing Usage in the State of California".

We are in general agreement with your conclusions and recommendations. The consultant, Arthur Young and Company, appears to have made a thorough review of data processing usage and consolidation. There are, however, two items in the report which deserve special attention.

1. On page 40, the report lists three applications in the Department of Water Resources that were judged to have little or no value and hence should be eliminated. We take exception to that conclusion because these applications provide considerable savings in time and labor over manual methods. Moreover, the Land Class and Use and the Well Logs Information systems are the only organized files in the State of such data. We will be providing you with additional information in the near future justifying the continued use of these applications.
2. We definitely concur with the report's statement regarding the State's need for a scientific time-sharing center, and particularly the prospect that Department of Water Resources computer facility may be an appropriate center at which to establish it. As you may know, we are currently preparing a long range plan and feasibility study that encompasses the EDP needs of the Resources Agency as a whole. We feel that it is appropriate, cost effective and timely to establish a Resources Agency Consolidated Data Center; it would in fact be a logical placement for a statewide time-sharing computer. We therefore encourage you to go somewhat further in your report, to specifically recommend establishment of such a center.

We appreciate the opportunity to review the report in draft form and are available for further discussions regarding it or our comments.



Charles W. Farrell, Chief
Computer Systems Office
8-485-2296

cc: Donald A. Sandison
Charles R. Shoemaker



STATE BOARD OF EQUALIZATION

333 EAST WALNUT STREET, PASADENA, CALIFORNIA
(P.O. BIN 77, PASADENA, CALIFORNIA 91109)
TELEPHONE: (213) 681-3551

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Controller, Sacramento
DOUGLAS D. BELL
Executive Secretary

April 23, 1979

Mr. Thomas W. Hayes
Acting Auditor General
Joint Legislative Audit Committee
925 L Street, Suite 750
Sacramento, California 95814

Dear Mr. Hayes:

Re: Review of Data Processing Usage in
the State of California

We have reviewed the draft copy of the above report received on April 20, 1979 with your statement that we have three working days to respond in writing in order for our comments to be included in the final report.

The Board of Equalization is opposed to consolidation of its computer operations into another data center. As a constitutional agency and the State's largest revenue department it is charged with the administration of many state and local tax programs that will generate over eleven billion dollars in 1979-80. The study made by Arthur Young and Company is based upon a foundation of computer efficiency and ignores the tax administration missions of the Board of Equalization. It also ignores the fact that the Board has been operating its computers effectively at a low cost and that consolidation would reduce efficiency and increase costs. In addition, it fails to give justifiable reasons for considering consolidation.

We should also like to state that this is the first time we were made aware that Arthur Young and Company was considering consolidation of computers. In fact, we were told it was not a matter of consideration in the study but instead consolidation of common computer applications such as registration was being considered.

The Board of Equalization has no intention of letting its computer operations reach capacity or becoming obsolete. It will continue as it has in the past to upgrade its computer operations to accomplish efficient tax administration at the lowest possible costs.

Sincerely yours,

A handwritten signature in cursive script, reading "D D Bell", is written over the typed name.

Douglas D. Bell
Executive Secretary
State Board of Equalization

DDB/km
cc: Board Members

APPENDIX A

DETAILED APPLICATION QUESTIONNAIRE INSTRUCTIONS

DETAILED APPLICATION QUESTIONNAIRE INSTRUCTIONS

APPLICATION NAME

Please enter the common name by which the application or system is known. Please abbreviate if necessary to be able to include an intelligible name in this space.

DEPARTMENT/AGENCY NUMBER

Please enter the reporting number of your department. The number is the Reporting Organization Code used by the State Data Processing Management Office as described in Section 5003 of the State Administrative Manual. See attachment.

APPLICATION SERIAL NUMBER

To be entered on each applicable "Detailed Report Questionnaire."

BUDGET PROGRAM SERVED

Please enter the common name by which the budget program served is known. Abbreviate if necessary.

RESERVED

Reserved for later use by the Auditor General.

FUNDING PRIORITY

Please enter the number for the priority category which best describes the priority of this application. Use the following categories:

1. Required by Federal or State Law.
2. Invaluable to agency. Could not do without.
3. High priority. Would be difficult to do without.
4. Routine priority. Application contributes to agency operations.
5. The application is nice to have but could be done without.
6. Of little or no value. Application could easily be done without.

GENERIC TYPE

This is the generic application type which best describes the subject application. Please refer to the list of generic application names and enter the number assigned to that name which best describes the type of application processed.

PROCESS MODE

Please enter the letter "B" for batch processing, the letter "I" for on-line inquiry with batch update, or the letter "U" for on-line update and inquiry. Please use that code which best describes the most complex processing used in the application.

PRIMARY DATA CENTER

Please enter the number assigned on the Data Center I.D. list to that data center which normally processes this application.

PRIMARY COMPUTER

Please refer to Computer I.D. list and enter the number assigned to the computer which is primarily used to process this application.

AVERAGE MONTHLY CPU HOURS

Please enter the average number of CPU (computer) hours, computed to the nearest 10th of an hour, used per month to process this application. In the event that this is a real-time application which is up a fixed period of time per day, please enter the average number of hours per month the system is available for real-time use. If the system is operated in a real-time mode part of the day and in a batch mode part of the day, add the batch CPU hours to the amount of real-time system availability.

ALTERNATE DATA CENTER

Please enter the number assigned to the data center which can be used as an alternate or has been used as an alternate to process this application.

ALTERNATE COMPUTER

Please refer to the Computer I.D. list and enter the number assigned to the computer which has been used as an alternate computer to process this application.

USE

Please enter "P" for production or production maintenance activity. Please enter "N" for NEW application development use.

TOTAL NUMBER OF PROGRAMS

Please enter the total number of computer programs in this application system.

YEAR IMPLEMENTED

Please enter the calendar year in which the system was implemented. If the application is under development, enter "99".

PRIMARY SOURCE LANGUAGE

Please refer to the Source Language table in the attachment and enter the number assigned to the primary source language used in the application system.

REAL MEMORY REQUIREMENTS

Please enter the real memory requirements of the largest program in the application. Please use K bytes or characters rounded to the nearest decimal point. Please refrain from using "words" to describe the total "K" of memory requirements.

TYPICAL NUMBER OF DISC DRIVES REQUIRED

Please enter the usual number of disc drives required to process this application.

MINIMUM TAPE DRIVES REQUIRED

Please enter the minimum number of tape drives required to process this application.

TAPE DENSITY

Please refer to the attached documentation and enter the number assigned to the tape density used in this application. In the event more than one tape density is used, enter the most common density used in the application.

PROCESSING DISK REQUIRED

Please enter the usual disk space required to process this application. Use bytes or characters and refrain from using words to state the disk space required.

PERMANENT DISK REQUIRED

Please enter the minimum amount of permanent disk space required in bytes or characters to process this application. Permanent disk space can be considered as total disk space required, much of which may be off-line for various job steps.

OPERATING SYSTEM

Please refer to the list of operating systems and enter the number assigned to that operating system used to process this application.

SECONDARY SOURCE LANGUAGES

If secondary source languages are used, please refer to the Source Language table and enter in the blocks marked Lang. the number which corresponds to the secondary source language used. In the blocks marked % Used, please enter the percent of that portion of the application system implemented in that source language. Please enter the secondary source language in the order of magnitude represented in the system beginning with the largest magnitude of use. The percentage figure will not total 100% due to the fact that the primary source language is entered in another field in the questionnaire.

FILE ORGANIZATION

From the list of file organization methodologies included on the attached documentation, please enter in the Type box the number associated with the file organization used. In the Percent box, enter the approximate percentage of the magnitude of files which use that file organization method. (Use 99% for 100%) Please enter the data beginning with the most widely used file organization method. Enter only those files which "belong" to the application. Exclude entry of files which are primarily a portion of other applications.

RJE & TERMINALS

Please refer to the RJE & Terminals list and enter in the box marked Type, the number which corresponds to the RJE equipment or terminals used. In the box marked Total, enter the total number of terminals used.

MONTHLY REPORT/OUTPUT TABLE

Please refer to the attached documentation and obtain the number assigned to the type media used in this application. Enter that media number in the box marked "media." In the box marked "number", enter the number of different reports or outputs which use that particular type of media; and under the column "lines" please enter the monthly average number of lines of output generated on that type media. For reports prepared at greater than monthly intervals enter the monthly equivalent of lines produced (i.e., divide by three months for quarterly reports, 6 months for semi-annual reports, and so forth). Please identify all media used for output.

SOFTWARE AND UTILITIES USED

Please refer to the list of software in the attachment and enter the number associated with that software used to process this application.

SPECIAL EQUIPMENT REQUIRED

Please refer to the Special Equipment list in the attachment and enter the number which designates the type special equipment required to process the application.

INTERNAL AGENCY 78/79 APPLICATION EQUIPMENT BUDGET

Please enter the dollar amount budgeted for equipment which is charged directly to the agency and not included in the data center charges. Please round to the nearest thousand dollars.

PERSONNEL BUDGET

Please enter in the FTE space the full-time-equivalent personnel budgeted and required to support the application such as operators, key entry personnel and clerks. Round FTE figures to the nearest one-tenth person. In the Budget Costs space, please enter the dollar amount budgeted for the personnel included under FTE. Please round to the nearest thousand dollars.

DATA CENTER 78/79 APPLICATIONS PROCESSING BUDGET

Please enter the dollar amount budgeted to pay for data center charges incurred to process the application. Please round to the nearest thousand dollars.

INTERNAL AGENCY 78/79 APPLICATION OTHER COST BUDGET

Please enter the dollar amount budgeted to pay for costs other than those included in the previous categories. Normally such costs would include supplies and other items which can be reasonably attributed to the application. Please round to the nearest thousand dollars.

YES/NO QUESTIONS

Please enter "Y" for yes or "N" for no in response to the questions asked.

NAME OF PREPARER

Please enter the name of the person in the department who provided the majority of the information requested by the questionnaire.

PHONE NUMBER

Please enter the telephone number of the person entered in "Name of Preparer".

STATE ADMINISTRATIVE MANUAL

ELECTRONIC DATA PROCESSING EDP EQUIPMENT INVENTORY

REPORTING ORGANIZATION CODES (Revised 7/78)

5003

Air Resources Board . . . . .	.006	Health . . . . .	.124
Banking . . . . .	.008	Health Facilities Comm . . . . .	.125
Conservation . . . . .	.012	Mental Assistance Payments . . . . .	.126
Controller . . . . .	.014	Mental and Developm'l Disab . . . . .	.128
Corporations . . . . .	.018	Public Health . . . . .	.129
Economic and Business Dev . . . . .	.019	Rehabilitation . . . . .	.130
Education . . . . .	.020	Social Services . . . . .	.132
Energy Resources Comm . . . . .	.021	Youth Authority . . . . .	.134
Finance . . . . .	.022	Alcoholic Bev Control . . . . .	.156
Fire Marshal . . . . .	.024	Consumer Affairs . . . . .	.158
Fish and Game . . . . .	.026	Crime Tech Res Foundation . . . . .	.160
Forestry . . . . .	.027	Equalization . . . . .	.164
General Services . . . . .	.028	Food and Agriculture . . . . .	.166
Highway Patrol . . . . .	.030	Franchise Tax . . . . .	.168
Industrial Relations . . . . .	.032	Housing and Commun Dev . . . . .	.172
Insurance . . . . .	.034	Law Enforcement Consolidated Data	
Military Dept . . . . .	.038	Center . . . . .	.176
Nav and Ocean Dev . . . . .	.040	Motor Vehicles . . . . .	.180
Parks and Recreation . . . . .	.044	Student Aid Comm . . . . .	.184
Personnel Board . . . . .	.046		
PPSD/PIMS . . . . .	.048	State Colleges and Universities	
Planning and Research . . . . .	.050	Chancellor . . . . .	.204
Postsecondary Educ Comm . . . . .	.051	Bakersfield . . . . .	.206
Pub Empl Ret Sys . . . . .	.052	Chico . . . . .	.208
Public Utilities Comm . . . . .	.054	Dominguez Hills . . . . .	.210
Real Estate . . . . .	.056	Fresno . . . . .	.212
Savings and Loan . . . . .	.060	Fullerton . . . . .	.214
Secretary of State . . . . .	.062	Hayward . . . . .	.216
State Lands Comm . . . . .	.063	Humboldt . . . . .	.218
Teale Data Center . . . . .	.064	Long Beach . . . . .	.220
Teachers Retirement Sys . . . . .	.066	Los Angeles . . . . .	.222
Transportation . . . . .	.068	Northridge . . . . .	.224
Treasurer . . . . .	.070	Pomona . . . . .	.226
Veterans Affairs . . . . .	.072	Sacramento . . . . .	.228
Water Resources . . . . .	.074	San Bernardino . . . . .	.230
Water Resources Control Board . . . . .	.076	San Diego . . . . .	.232
Health & Welfare Agency Data Center	100	San Francisco . . . . .	.234
Alcohol and Drug Abuse . . . . .	.104	San Jose . . . . .	.236
Benefit Payments . . . . .	.106	San Luis Obispo . . . . .	.238
Corrections . . . . .	.112	Sonoma . . . . .	.240
Employment Dev . . . . .	.116	Stanislaus . . . . .	.242
Health Plg & Dev, Off. of . . . . .	.122		

If the reporting state agency is not listed, contact the EDP Equipment Inventory Manager, State Data Processing Management Office, at (916) 445-1777 for assignment of an additional code.

Office of Traffic Safety	140
Department of Health Services	141
Department of Mental Health	142
Department of Developmental Services	143
Reserved	144-149

APPLICATION GENERIC TYPES

PERSONNEL SYSTEMS

- 001 Affirmative Action Reporting
- 002 Employee Personal Accidents
- 003 Payroll System
- 004 Personnel - Training Reporting
- 005 Personnel - Personal Profiles/Skills Register
- 006 Personnel - Position Control
- 007 Personnel - Leave Accounting
- 008 Personnel - History of Personnel Actions (e.g. Salary Adjustments, Training Received)
- 009 Personnel - Miscellaneous Personnel

TRACKING SYSTEMS

- 101 Claim Processing/Tracking
- 102 Contract Management
- 103 Complaint/Case Tracking (incl. Treatment Followup)
- 104 Legislative Bill Tracking
- 105 People Tracking (Case Workers, Clients, Patients, Social Worker)
- 106 Miscellaneous Tracking Systems

RETIREMENT/PENSIONS SYSTEMS

- 201 Employee Retirement System
- 202 IRS Pension Reporting
- 203 Pensions - Receipts Accounting
- 204 Pensions - Contract & Employer Accounting
- 205 Pensions - Disbursements
- 206 Pensions - Reporting System
- 207 Pensions - Reserve Fund Maintenance
- 208 Pensions - Roster
- 209 Other Retirement/Pension Applications

PERFORMANCE REPORTING & EVALUATION SYSTEMS

301	Audit
302	Benefit Reporting
303	Case/Client Reporting
304	Facility Utilization
305	Health Benefits Reporting
306	Highway Maintenance Program Reporting
307	Highway Right-of-Way Reporting
308	Pavement Condition Reporting
309	PERT
310	Personnel Utilization/Manpower Planning/Staffing Analysis
311	Program Effectiveness Evaluation
312	Program Statistical Reporting
313	Project Management System
314	Project Time Reporting
315	Vital Statistics
316	Miscellaneous Performance Reporting & Evaluation System

REGULATORY SYSTEMS

401	AFDC Eligibility
402	Duplicate Benefit Detection
403	Health Benefit Eligibility
404	Investigative Support
405	Registration/Licensing - Personnel
406	Registration/Licensing - Facilities and Institutions
407	Regulatory Inspection Reporting
408	Miscellaneous Regulatory System
409	Registration/Licensing - Vehicles, Vessels
410	Food Stamp Eligibility & Processing
411	Miscellaneous Benefits Processing

STATISTICAL/SCIENTIFIC SYSTEMS

501	Computer Model
-----	----------------

502	Engineering/Scientific
503	Engineering Cost Estimate
504	Geological
505	Geometronics
506	Health Research & Analysis
507	Management Science (e.g. Linear Programming, Simulation)
508	Plotting/Drafting
509	Statistical Analysis Packages (e.g. Biomed, SPSS)
510	Miscellaneous Statistical/Scientific System

OPERATIONAL ASSISTANCE SYSTEMS

601	Catalogs, Indexs, Cross References and Directories
602	Computer Utility
603	Data Base Inquiry
604	Data Reduction/Entry
605	Data Preparation
606	Hospital/Medical Insurance
607	Inventory Control and Distribution
608	Inventory Control/Material Management
609	Keyword Information Retrieval/Updating
610	Mailing Lists/Labels
611	Manufacturing Production Scheduling & Control - Job Shop
612	Manufacturing Production Scheduling & Control - Continuous Process
614	Order Processing
615	Other Operational Assistance Systems
616	Property Maintenance
617	Structure Maintenance
618	Text/Word Processing
619	Traffic Projection
620	Vehicle Fleet Management
621	Vehicle Fuel Consumption
622	Vehicle Maintenance System

BILLING SYSTEMS

701	Billing System - Person (e.g. Client, Patient)
702	EDP Billing
703	Radio Catalog/Maintenance/Billing
704	Real Estate Rental Management/Billing
705	Special Service Billing
706	Transfer Cost Billing
707	Miscellaneous Billing System

ACCOUNTING & FINANCIAL SYSTEMS

801	Accounting - Edit and Data Base Preparation
802	Accounting - Fiscal and Budgeting
803	Accounting - Departmental Financial
804	Accounting - Fund
805	Accounting - Mortgage Loan
806	Accounting - Program Cost and Budgeting
807	Accounting - Program Cost/Time Reporting
808	Accounting - Tax
809	Accounting - Encumbrance
810	Accounts Payable
811	Accounts Receivable
812	Bank/Financial Reconciliation
813	Bond and Coupon Reconciliation
814	Cash/Funds Receipt and Application
815	Financial Forecast
816	Fund Apportionment
817	Investment Portfolio Management
818	Overhead Allocation
819	Payment/Expense Distribution
820	Program Reimbursement - Federal and State
821	Project Management and Budgeting
822	Project Management, Costing and Billing
823	Project Progress Payment Calculation

824	Property Inventory (Fixed Asset Accounting)
825	Social Security Collection
826	Vouchers Payable/Disbursements
827	Vouchers Payable/Reconcilement

OTHER SYSTEMS

901	Actuarial
902	Carpool Processing
903	Demographic Distribution
904	Elections
905	FHWA
906	High School Enrollment & Proficinecy Reporting
907	School Directories
908	Miscellaneous Taxable Property Reporting
909	Miscellaneous Production Maintenance

DATA CENTER ID

1	Stephen P. Teale Consolidated Data Center.	TEALE
2	Health and Welfare Agency Data Center.	HWDC
3	Franchise Tax Board Data Center.	FTB
4	Department of Water Resources Data Center.	DWR
5	Board of Equalization Data Center.	BOE
6	Department of Motor Vehicle Data Center.	DMV
7	State Controller's Data Center.	CSCO
8	Public Utilities Commission Data Center.	PUC
9	In-House Mini-Computer	MINO
A	Office of State Printing	OSP

COMPUTER ID

1	IBM System 370 all models.	IBM 370
2	IBM System 360 all models.	IBM 360
3	IBM 1401	IBM 1401
4	IBM 7074	IBM 7074
5	Amdahl 470 all models.	AMD 470
6	Univac/RCA Spectra 70/6.	UN 70/6
7	Univac/RCA Spectra 70/45	UN 70/45
8	Univac/RCA Spectra 70/55	UN 70/55
9	Burroughs B-3500	B-3500
A	Burroughs B-1720	B-1720
B	Control Data 3300.	CDC 3300
C	CDC CYBER 175.	CDC 175
D	PDP11-70	PDP11-70
E	CDC-7600	CDC-7600

SOURCE LANGUAGE

01	ASSEMBLER - UNIVAC/RCA Spectra
02	ASSEMBLER - IBM 370/360 and Amdahl
07	Autocoder - EBM7074
10	COBOL - American National Standard
11	COBOL - Other COBOL Compilers
20	FORTRAN IV - G
21	FORTRAN H
22	FORTRAN (CDC)
23	FORTRAN (Burroughs) - ANS 1966
30	ALGOL
40	PL1
50	RPGII
51	RPG
52	MARK IV
53	SYNTAX I
54	SYNTAX II
55	TPL
56	DYL 260
60	BASIC
99	Proprietary - Not Available to User

TAPE DENSITY

- 1 200BPI, 7 Track
- 2 556BPI, 7 Track
- 3 800BPI, 7 Track
- 4 1600BPI, 7 Track
- 5 800BPI, 9 Track
- 6 1600BPI, 9 Track
- 7 6250BPI, GCR

OPERATING SYSTEMS

- 01 IBM MVS Release 3.7
- 02 IBM SVS Release 1.7
- 03 IBM OS/MVT Release 21.8
- 04 IBM DOS Release 25
- 05 Univac/RCA Spectra TDOS Release 25
- 06 Univac/RCA Spectra TDOS Release 21.5
- 07 Burroughs B-1700 MCP
- 08 Burroughs B-3500 MCP
- 09 Control Data Master Release 4.2
- 10 Control Data Master Release 3
- 11 IBM OS/VS1 Version 6F

FILE ORGANIZATION

- 01 Sequential
- 02 Random
- 03 Index Sequential (ISAM)
- 04 VSAM
- 05 Data Base Management System (Commercial Vendor, not IMS or ADABAS)
- 06 Data Base Management System (In-house Developed)
- 07 ADABAS
- 08 IMS

REMOTE JOB ENTRY EQUIPMENT AND TERMINALS

- 01 IBM 2780, 3780 or Compatible Type (i.e. DATA 100)
- 02 IBM 3270 or Compatible Type
- 03 Teletype or Similar
- 04 Other CRT Type Terminals
- 05 Typewriter Type (Terminet 300 or Similar)
- 06 Other Medium Speed RJE Terminal
- 07 Other Minicomputer or Distributed Computer
- 08 Other Large Scale Computer

REPORT MEDIA

- 1 Paper Printout
- 2 Microfiche/Microfilm
- 3 Microfiche Aperture Cards
- 4 CRT Terminal
- 5 Other Terminal
- 6 Interpreted Tabulating Cards
- 7 Computer Graphics or Plotter
- 8 Mag Tape/High Speed Page Printer (Xerox)

CONTROL DATA SOFTWARE AND UTILITIES

401	Message Control System
402	Respond
403	Mass Storage Sort (MS Sort 4)
404	Multiple Access Retrieval System (MARS III)
405	Linked Index Sequential Access (LISA 2)
406	Tape Sort/Merge
407	MS Sort/Merge

IBM 370/AMDAHL 470 SOFTWARE AND UTILITIES

101	ADABAS
102	ADASCRIP T +
103	ADAWRITER
104	ATMS II
105	BDAM
106	BIOMED (BMDP)
107	BPAM
108	BSAM
109	BTAM
110	Calcomp Plot Package
111	Capex Cobol Optimizer
112	CICS Dynamic Map
113	CICS 3270 Simulator
114	CICSVS
115	Cobol Interactive Debug
116	CUE
117	DATA/Dictionary
118	DMS/OS
119	DSO
120	DS/2
121	EXECUTOR/MVS
122	FATS/FATAR
123	FDR/DSF
124	FORESIGHT V
125	FORESIGHT VI
126	Fortran IV Library (Mod1)
127	Fortran Interactive Debug
128	Generalized Information System(GIS)
129	GPSS/360
130	HASP
131	Standard IBM Utilities
153	IMS
154	IMSL
155	ISAM

156 Kommand (DAS & RBS)
158 MINIDUMP or ABEND-AID
159 Mortran 2
160 NATURAL
161 Omegamon
162 Panvalet
163 Panvalet/Online
164 PL/1 Checkout Compiler
165 PL/1 Resident Library
166 PL/1 Transient Library
167 PMS IV
168 PPE
169 QSAM
170 RESOLVE II
171 SCSS
172 SECURE (DAS)
173 SHRINK
174 SPOOLER
175 SPSS
176 SSP
177 SUP370
178 Syncsort
180 TCAM
181 3330-3350 Conversion Aid
182 TMS (UCC-one)
184 TSA
185 TSO Assembler Prompter
186 TSO Cobol Prompter
187 TSO Data Utilities
188 TSO Fortran Prompter
189 TSO Full Screen Edit
190 TSO.MON
191 TSO 3270 Session Manager
192 VIDIO SYS
193 Video 370
194 VSAM
195 VTAM
196 360/30 DOS Utilities

UNIVAC/RCA SPECTRA SOFTWARE AND UTILITIES

201	AUTOFH	Automatic Text Formatting System (with optional hyphenation)
202	AUTOFM	Automatic Text Formatting System (without optional hyphenation)
203	BUFLOA	Load Train Printer Print Buffer
204	CARDCK	Mass Storage Unit Card Check
205	CDPR	Card to Printer/Punch
206	CDPSIM	Communication User Program Simulator
207	CDRA	Card to Random Access
208	CDRAM	Card to Random Access/Mass Storage
209	CDTP	Card to Tape
210	CLC	COBOL Library Convertor
211	CLU	COBOL Library Update
212	COS	Communications Oriented Software
213	DATE	Change the Date in System
214	DATES	List Julian Dates for Current Month
215	DDRL	Disc/Drum Dump and Reload
216	DIAGDG	Test Data Generator
217	DLP	Tape Duplicate
218	DPDUMP	Special Core Dump for Braille
219	DSCSRT	Disk Sort
220	DUMPRT	Print Core Dumps Spooled to Tape
221	DUP	Copy Tape to Tape
222	E301	301 Emulator
223	E501	501 Emulator
224	E7010	1410/7010 Emulator
225	EML400	1401/1440/1460 Emulator
226	EMP	Edited Memory Print
227	GPPCH	Card to Punch
228	HCR656	Hardware Check Routine for 70/656
229	HCR740	Hardware Check Routine for 740
230	ISAR	Index Sequential Analysis and Reorganization

231	JAEDIT	Job Accounting Edit Routine
232	JOBLOG	List Job Account From Tape to Printer
233	LLU	Load Library Update
234	LNKEDT	Linkage Editor
235	MARK	Write Tape Marks on Tpae
236	MARK IV	Informatics
237	MASTRN	Master Tape Transcriber
238	MCDF	Multichannel Communications Disc Formatter
239	MCDSF	Multichannel Communications Disc Snapshot Formatter
240	MCSREC	Off-Line Recovery Program
241	MLU	Macro Library Update
242	MONIPT	Job Stream Compiles
243	MTSIP	Maintenance Test System Interface
244	OFFLIN	Vary a Controller Offline
245	OMLU	Object Module Library Update
246	OUTWRT	Output Writer Routine
247	PAC II	Project Management System
248	PAL246	Tape Test
249	PLTNDX	Program Load Library Tape Listing
250	PRGTRN	Program Library Transcriber
251	RAALLR	Random Access Storage Allocator
252	RADAR	Random Access Dump and Reload
253	RAEDIT	Random Access Edit
254	RAFLED	Random Access File Edit
255	RAINDX	Random Access Index Edit
256	RAINIT	Random Access Volume Initializer
257	RALIST	Random Access List
258	RAMSUP	Mass Storage Unit Service Program
259	RAPR	Random Access to Printer/Punch
260	RARA	Random Access to Random Access
261	RARAM	Random Access to Mass Storage Unit
262	RATP	Random Access to Tape
263	RECHK	Read Check a Tape
264	SHIRUE	Statistical and Historical Information on Recoverable and Unrecoverable Errors

265	656SS	70/656 Support System
266	SLM	Source Library Maintenance
267	SLMP	Self Loading Memory Print
268	SLRE	Self Loading Random Access Edit
269	SLTE	Self Loading Tape Edit
270	SLU	Source Library Update
271	SPATCH	System Patch Routine
272	SRTGEN	Sort/Merge
273	SYSGEN	System Generation Routine
274	TIME	Change Internal Clock
275	TOSHCR	Univac C.E. Tape Drive Test
276	TPCOMP	Tape Compare
277	TPEDIT	Tape Edit
278	TPINIT	Tape Volume Initializer
279	TPMAIN	Tape File Maintenance
280	TPPR	Selective Tape to Printer and/or Punch
281	TPRA	Tape to Random Access
282	TPRAM	Tape to Mass Storage Unit
283	TPTP	Tape to Tape
284	UCOLT	American National Standard COBOL Language Translator
285	VICON	Video Control System
286	VIMTPG	On-Line Test Program Generator (HCR)
287	VOLHDR	Write Standard Vol & HRD on Tape
288	DMVRTC	
289	DMVARTS	
290	290 DMU DCS	

SPECIAL EQUIPMENT

01	Card Reader
02	Card Punch
03	Communications Processor
04	COM Recorder
05	MICR Reader
06	Magnetic Tape Cartridge Reader
07	Optical Character Reader
08	Mark Sense Reader
09	Plotter
10	Graphic Display Device
11	Mass Storage Unit

DETAILED APPLICATION QUESTIONNAIRE

APPLICATION NAME																								DEPT.		APPLICATION SERIAL NO.			
BUDGET PROGRAM SERVED																								RESERVED					
FUNDING PRIORITY		GENERIC TYPE		PROCESS MODE		PRIMARY DATA CENTER		PRIMARY COMPUTER																					
ALT. DATA CENTER (IF ANY)		ALT. COMPUTER (IF ANY)		USE		TOTAL NUMBER PROGRAMS		YEAR IMPLEMENTED																					
PRIMARY SOURCE LANGUAGE				REAL MEMORY (K BYTES/CHAR)		TYPICAL NO. DISK DRIVES REQ.		MIN. TAPE DRIVES REQ.		TAPE DENSITY																			
PROCESSING DISK REQ. (K BYTES/CHAR)				PERMANENT DISK REQ. (K BYTES/CHAR)				OPERATING SYSTEM																					

SECONDARY SOURCE LANG. (IF ANY)		FILE ORGANIZATION		RJE & TERMINALS		MONTHLY REPORT OUTPUT	
LANG. % USED		TYPE % USED		TYPE TOTAL		MEDIA NUMBER REPORTS LINES IN HUNDREDS	
127 128 129 130		147 148 149 150		167 168 169 171		192 193 195 196 200	
LANG. % USED		TYPE % USED		TYPE TOTAL		MEDIA NUMBER REPORTS LINES IN HUNDREDS	
131 132 133 134		151 152 153 154		172 173 174 176		201 202 204 205 209	
LANG. % USED		TYPE % USED		TYPE TOTAL		MEDIA NUMBER REPORTS LINES IN HUNDREDS	
135 136 137 138		155 156 157 158		177 178 179 181		210 211 213 214 218	
LANG. % USED		TYPE % USED		TYPE TOTAL		MEDIA NUMBER REPORTS LINES IN HUNDREDS	
139 140 141 142		159 160 161 162		182 183 184 186		219 220 222 223 227	
LANG. % USED		TYPE % USED		TYPE TOTAL		MEDIA NUMBER REPORTS LINES IN HUNDREDS	
143 144 145 146		163 164 165 166		187 188 189 191		228 229 231 232 236	

SOFTWARE AND UTILITIES USED												<input type="checkbox"/> DOES THIS SYSTEM THROUGH MAGNETIC MEDIA INTERFACE TO OTHER APPLICATIONS? 312	
SPECIAL EQUIPMENT REQUIRED												<input type="checkbox"/> IS THIS A "CANNED", COMMERCIALY AVAILABLE, OR CONSULTANT DEVELOPED APPLICATION. IF YES, DEVELOPER 313	
INTERNAL AGENCY 78/79 APPLIC. EQUIP BUDGET (000)												<input type="checkbox"/> IS THIS APPLICATION SCHEDULED FOR MAJOR REVISION OR REDESIGN IN THE NEXT TWO YEARS? 314	
INTERNAL AGENCY PERSONNEL 78/79 FTE BUDGET COSTS (000)												<input type="checkbox"/> IS THIS SYSTEM USED BY OTHER DEPARTMENTS OTHER THAN YOUR DEPARTMENT? 315	
DATA CENTER 78/79 APPLIC. PROCESS BUDGET (000)												<input type="checkbox"/> ARE YOU AWARE OF A SIMILAR OR DUPLICATE APPLICATION PROCESSED AT ANOTHER DEPARTMENT? 316	

NAME OF PREPARER

PHONE NUMBER

DETAILED REPORT QUESTIONNAIRE INSTRUCTIONS

DEPARTMENT (DEPT.)

Please enter the reporting number of your department. The number is the Reporting Organization Code used by the State Data Processing Management Office as described in Section 5003 of the State Administrative Manual. This number is also used in the detailed application questionnaire.

APPLICATION SERIAL NUMBER

Please enter the Application Serial Number as provided on the Detailed Application Questionnaire.

REPORT ID

Frequently, system designers may use a number to identify reports. If this is the case with the subject application, please enter that ID number in the field. In the event no Report ID is used, please leave the space blank.

MEDIA

Please enter the number from the following list which corresponds to the media used to present this report.

1. Paper Printout
2. Microfiche/Microfilm
3. Microfiche Aperture Cards
4. CRT Terminal
5. Other Terminal
6. Interpreted Tabulating Cards
7. Computer Graphics or Plotter

PRODUCTION CYCLE

Please enter the number from the following list which corresponds to the production cycle most commonly used to produce the report.

1. On Demand
2. Daily or more frequently
3. Weekly or less often than daily
4. Semi-monthly or less often than weekly
5. Monthly or less often than semi-monthly
6. Quarterly or less often than monthly
7. Semi-annual or less often than quarterly
8. Annual or less often than semi-annual

USE

Please enter the number from the following list which corresponds to the report usage which is most representative:

1. A number of times during the day
2. Once a day
3. Once every two or three days
4. Weekly
5. Semi-monthly
6. Monthly
7. Quarterly
8. Semi-annually
9. Annually

IMPORTANCE

Please enter the number from the following list which corresponds to the most accurate description of the importance placed on this report.

1. Invaluable, could not do without
2. Very important, would be difficult to do without
3. Routine, could do job without it, but it contributes to better performance
4. Limited importance, contributes to a small extent to better performance
5. Little or no importance, merely helps out performance

SIMILAR REPORT

Please enter the letter "Y" if you know of a similar report which could be used, with only minor modification, to fulfill the purpose of this report. Enter "N" if no similar report is known.

REPORT NAME

Please enter the common name or title of the report. Please abbreviate if necessary. Please do not include one time only reports produced by report generation software such as Mark IV.

COMMENTS

Please include name of similar report or any comment you wish known concerning the report.

DETAILED REPORT QUESTIONNAIRE

DEPT.		APPLICATION SERIAL NUMBER				REPORT NAME																META				PROD. CYCLE				USE				IMPORTANCE				SIMILAR REPORT				COMMENTS	
08	13	01	03	04	07	08	13	14	39	40	41	42	43	44	40	41	42	43	44	40	41	42	43	44	40	41	42	43	44														

SERVICE BUREAU/TIME SHARING QUESTIONNAIRE

Department _____

Name of Preparer _____ Phone _____

Are any non-state provided computer service bureaus or time-sharing services used by your department?

Yes

(Please circle one)

No

If yes, complete the following:

1978-79 anticipated or budgeted computer service bureau charges _____

Name and address of Service Bureau _____

1978-79 anticipated or budgeted computer time sharing charges _____

Name and address of Time Sharing Service _____

Provide List Service Bureau application and computer time-sharing application processed. Use separate sheet of paper if necessary.

Service Bureau

Time Sharing

APPENDIX B
AGENCY AND APPLICATION REPORT

AGENCY AND APPLICATION REPORT

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Air Resources Board	ACP Screening Handbook Agricultural Burn Data System Area Sources Emissions System Cal-Tech Air Quality Modeling Calif Aerometric Data Mgmt Sys Calif Air Quality Data System Direct Travel Impact Model Emission Inventory System EPA's UNAMAP Models Meteorology Data System Metro-Apex Modeling Studies Data Staging Motor Vehicle Emissions Model Project Management Smog Air Quality Modeling Syst
Alcohol and Drug Abuse	Alcohol Related Arrests Allocation Formula Client Oriented Data Aquisitn Client Status Report Drinking Driver Program Drug Program Evaluation Drunk Driving Convictions Evaluation Project Follow-Up Project Mailing Labels Management Information System Monthly Admission & Utilization Nat Drug Abuse Treatment Util Program Cost Report System Special 1 Time Requests Women In Crisis File
Conservation	Earthquake Catalog Gravity-Magnetic Analysis Oil and Gas Assessments Oil and Gas Production Anal. Strong Motion Instr Program
Consumer Affairs	Cashiering Complaint/Invest Tracking Syst Contractors Division of Investigation Examination System Inspection Status Master File Registered Nurse Exam Stats and Accounting Operation Vehic Emiss Testing Stat Analy Vocational Nurse Exam Word Processing
Controller	Employment History System Employment History-Development Employment History-Maintenance Fund and Accg. System General Disbursement Processes Health Benefits-Development Inheritance and Gift Tax Acctg Local Govt Financial Reports Payroll (7074 Applic.)

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Controller (cont'd)	Payroll System Payroll-Development Payroll-Maintenance PPSD and SDD Printing Services System Development Unclaimed Property Acct System
Corporations	Department Time Rept/CTS Act Sy HCSP Licensing System Licensing System
Developmental Services	Budget Control System Compensatory Education Continuing Care Services Cost and Billing CRS Medicare Report CRS Personal Deposit Fund Develop Disabil Mgmt Rptg Syst Develop Disabilities Services Development Disab Mgmt Rpt Sy Developmental Disabilit Census Environment Health & System Food Services Management Guardianship Labor Relations LPS Billing Miscellaneous Processing Mr Parental Contribution Position Employee Roster Property Equipment Invent Hosp Regional Center Projections Staffing Standards State Hosp Cost RPTG System State Hosp Special Requests State Hosp Rpts & Requests
Education	Bureau of Publications Business Services Cal Sch Finance Equal Simu Sys Child Nutrition Service Bureau Curriculum Services Educ Agency for Surplus Proper Educational Data Mgmt Systems Educational Data Mgmt Systems Fiscal Systems Operations (PCA) Fiscal Systems Operations (ABS) Program Evaluation and Research School Apportionments and Rpts Special Education State Library Services Textbook Distribution Traffic Safety Education Voc Educ Field Operations Vocational Education
Employment Development	Adverse Selection Adverse Selection Stat Appeals Statistics Applicant Data Systems Audit Flag Card Bna Benefit Audit Bpts U I Benefit PMT Statistics Continuous Wage & Benefit Hist Cost Accounting System Current Employment Estimates D I Terminated Spells Stats Departmental Inventory Control Determination of Eligibility

AGENCYAPPLICATION NAME

Employment Development (con'd)

DI Elective Coverage Account.
ECC Embossed Card Payments
Employer Accounting
Employer Address Inquiry
Employer Billings
Employer Charbebacks
Employer Rulings
Employer Statistics
Employment Security Auto Rptg
Equal Employment Opportunity
ES Promotional Mail Inserts
ES-202 Redesign (ERT)
Experience Rating
Extended Duration
Fictitious Employer Detection
Field Audit
Franchise Tax Tapes
ICP Interstate Payment System
Job Bank
Leave Balance
Local Office Stat
Mandatory Employer Listing
Master Industry Classifications
Migrant Family Statistics
Minority Race Study
Monetary Determinations (MON)
New Claims Stat
Occupational Employment Stats
OPT Overpayments
Personnel Transactions (PTR)
Proof Of Credit
Public Entity Liabilities
Recomputations
TRA Trade Readsustment Act
Training Records (TRG)
U I Claimant Characteristics
UBR Unemploy Ins Bank Reconcil
Unemploy Comp/FED Emp & Exmili
Wage Record Processing
Wage Record Statistics
Win Work Incentive

Energy Resources Commission

Appliance Efficiency Standards
Cal Con Publications
Demand Conformance
Demand Forecasting
Direct Thermal Systems
Load Mangement
Locational Planning
Management Information System
Mass Mailing
NOI AFC Processing
Pollution Modeling
Quarterly Fuel and Energy Rptg
Residential Standards
Solar Economics
Supply Assessment
Technical Assistance

Equalization

Accounts Receivable
Aircraft
Aircraft & Vessels
Allocation
Appraiser Certification & Trng
Assessment Standards Time Rptg
Audit Cell Analysis
Audit Selection

AGENCYAPPLICATION NAME

Equalization (con'd)

Audit Statistics
Beverage Tax
BTCIS
Business Taxes Time Reporting
Cigarette Tax
Data Processing Division T/R
Delinquency
Homeowners
Intercounty Equalization T/R
Job Accounting
Legal Time Reporting
Litter Assessment
Personnel Accounting
Petitions and Refunds
Petroleum
Private Car
Property Records
Registration
Return Processing
Sample Selection
Sample Selection Expansion
Security
Statistical Enumeration
Tape Library
Timber Tax
Valuation
Valuation Time Reporting
Work Measurement

Finance

Basic Programs Using Tenet
Budget Operations
CFIS Task Force
Computer Audit Retrieval Sys
Data Processing Managment
Financial Research
Income From Postretirement Emp
Legislative Tracking/Info
Miscellaneous Special Analysis
Population Research
Statistical Education Financin
Supplementary Security Income

Fire Marshall

Arson Cross-Index
CFIRS System

Food and Agriculture

Agricultural Statistics
Fertilizer & Mineral
Fuel Pumps
Milk Pooling
Milk Stabilization
Nursery Licensing
Personnel Leave Accounting
Pesticide Information
Special Grape Acreage

Forestry

Allotment Expenditure
Federal & State Income Tax-Eff
Fire Incident Reporting Syst
Fire Oper Character Using Simu
Fire Prevention Inspection Rep
Material Managment System
Miscellaneous Services
Outstanding Check Listing
Payroll Distribution
Program Time Reporting System
Property

AGENCYAPPLICATION NAME

Franchise Tax

BCT--Accounts Receivable
BCT--Audit Activities
BCT--Filing Enforcement
BCT--Research & Statistics
MIS--Document Processing
PIT--Accounts Receivable
PIT--Audit
PIT--Filing Enforcement
PIT--Research & Statistics
PIT--Self Assessment
Prad-Audit Activities
Prad-Document Processing
SCTA-Audit Activities
SCTA-Claim Processing
SCTA-Research & Statistics

General Services

Admin Hearing Functional Time
Affirmative Action System
AFS Organizational Unit Cost
Communications Div Wire Section
Contractor Service Vendor
DGS Bldgs and Grounds Cost Acc
DGS Local Asst Functional Time
DGS Proc Admin Title Subscript
DGS Proc Quarterly Townage RPT
DGS Procurement Outdoor Calif
DGS-DPSO Internal Acctg System
DGS-DPSO Job Cost Log
Fleet Administration
Leased Space Invoices
Leave Balance Reporting System-
Management Services
Office of Small Business
OSA Project Mgmt System
OSP Accounting System
OSP Employee Time Reporting
OSP Legislative Bill Room
OSP Stock Status System
OSP Text Management System
Radio Maintenance
Records Center Info System
Rei Real Estate
Res Project Mgmt System Prod
Service Contracts
Space Mgmt Space Inventory
State Police
State Police-Crime & Inc. RPTG
Stwide Logistics and Material
Supportive Service OB8 and 9

Health Facilities Comm.

Health Facilities Disclosure

Health Planning & Devel.

Annual Rpts for Health Facilities
Calif Health Manpower Reports
Cert of Need Exemption System
Inventory of Lic Hlth Facilities
Miscellaneous Requests
Vital Statistics Reports

Health Services

ABM-Abortion Monitoring
ABS-Abortion Survey System
ABT-Alternative Birthing
ADR-Address (Mailing) Labels
AHS Alternative Health (PHP)
AIH-Air Lab Information Sys
ASC-Accounting Schedule/Claims
ATD-Aid to Totally Disabled
ATM-Automated Text Management

AGENCY

Health Services (cont'd)

APPLICATION NAME

AVP-WIC Authorized Vendor Proj
BCR-Birth Certificate Reliabil
BDC-Budget Control System
BGS-Budget Greensheet
BIS-Budget Information System
BMB-BENE Explanation System
BUY- Medicare Insurance Buy-In
CAB-Cost & Billing
Casualty/Compliance A/R
CCA-CHDP Claims Accounting Sys
CCH-Contract Counties Evc Hlth
CCI-CA Correctional Industries
CCS-Crippled Childrens Serv
CDS-CDS Capitation System
CEL-CID Eligibles Summary
CHD-CHDP Interim Infor System
CID-Central Issuance And Deliv
CIS-Cancer Incidence System
CLS-Chemistry Lab Services
CMC-CMC Operator Analysis
CMR Congenital Malformati Rpts
CMS-Contract Management System
CTR-CAL Tumor Register System
DAR-Directors AD HOC Requests
DHC-Adult Day Health Care
DPI-Program Inventory
EHF-Eligibility History File
EMS-Emergency Medical Services
ESL-Environmental Studies Lab
EXL-Laboratory Examinee System
FAD-Food & Druge Inspecti Repts
FFP FED Financial Pa-ticipation
FIS Facilities Information Sys
FPR Family Planning Report Sys
FPS Family Planning System
FRD Phred Project Support
GDC Genetic Disease Control
HCS Paid Claims Miscellaneous
HEW HEW Audit
HIS Health Inventory System
HRP High Risk Pregnancies
HTS Hypertension Survey Study
HWM Hazardous Waster Management
IDS Hepatitis Register
IOR Central Index of Offi Recs
LAB Laboratory Facility System
LBR Labor Relations
LFD-LAB Facility Data Base
LIC-Nurse Assistant Certificate
LPD-Lead Poisoning Testing
LRA-Long Range Accounting Syst
MBL-MBL Specimen Control Syste
MCE MEDI-CAL Eligibility
MCF-Medicare Coding File
MCH Maternal and Child Health
MDR Medi-Drug Reporting System
MES Los Angeles MI/GR Merger
MFP Medi-Cal Fam Plan Rpt Rev
MFR Medi-Cal Federal Reports
MMI Medi-Cal Management Inf Sy
MOP Month of Payment Reports
MOS Medi-Cal Month Of Ser Rprt
MPA Misc Medi-Cal Request
MQC Medi-Cal Elig Quality Cont
MRS Prepaid Hea Plan Rate Set
MSU PHP Services Utilization
MTR Metrs-Paid Claims
NBT Newborn Testing

AGENCY

Health Services (con'd)

APPLICATION NAMES

PCP Paper County Process
PER Laboratory Personnel Systm
PIM DHS Staffing Level Rpt Sys
PIP Pilot Proj Reporting Systm
PMS Pregnancy Monitoring
PRS Personnel Roster-Positions
PTL Proficiency Testing of Lab
QAM Quality Assurance Monitori
QLB Quarterly Liability
RCV Health Recovery System
RFG Refugee Tracking & Cost RP
RHL-RAD Health-Licentiate
RHM-RHS Radioactive Materials
RHR-RAD Health-Rad Registratio
RHT RHS X-Ray Technology
SDM Short Doyle Med-Cal Report
SRS Sterilization Rptg System
SSA Sanitarian Registration Sy
SUR Surveillance & Util Review
TAR Temps and Returns
TRS Lic & Cert Time Rptg Systm
TTV Title V-Mis MCH
Vec Vector Control
VPP Volume Drug Purchase Plan
VRL Viral and Rickettsial Lab
VSB Vital Statistics Births
VSC Vital Stat-Fetal Deaths
VSD Vital Statistics-Deaths
VSF Vital Stat Divorce Final
VSM Vital Stat-Marriages
VSS Viatal Stat Special Request
WES WIC Evaluation Study
WEV Small Water Systems Evalua
WIC-WIC Eligibility System
WSS Large Water Info System
XVI--Title XVI Medi-Cal Eligib

Highway Patrol

Automated Transfer & Recruit
Budget Crossover
CHP Cadet Personnel Ques. Surv.
CHP Monthly Magazine Labeling
CHP Press Card Inventory
CHP Property Inventory
CHP 431 Overtime Grants
Data Guidance
Data Guidance (TSO)
Data Processing Operating Exp
Distribution of Personnel Serv
Encumbrance & Expenditures
Firt-Aid Trng Personnel Inv
Fleet Management Maint. Sched.
Information & Education Activ
Inventory of In-Service Trng
Invoice of Crossing Guard Sal.
Linear Plot of Employee Resp.
Listing of Scheduled Jobs
Management Team Survey
Personnel Roster File
Schedule 2 Update
St Pers Bd In-Service
Stores & Equipment Inventory
Support Serv (Misc) Batch
Support Serv (Misc) TSO
Uniform Allowance Anniversary

AGENCY

APPLICATION NAME

Housing and Comm. Deve.

Codes and Standards Time Rptg
MHP Data Reporting System

Industrial Relations

Affirmative Action
Apprenticeship Agrmnts and STD
Apprenticeship--Veterans Train
Benefit Notices Processing
Cal/Osha Consultation Statists
Communications Unit Processing
Data Processing Eqpt Utiltn Rpt
Eletr Inspt Sched and Acct Rec
Fep Interim Mis
Labor Standards Enforcemts Mis
OSHA Mis Sdb and Rpi
OSHA Survey
OSHAB Index
PV Inspect Sched and Acct Recv
Rehab Bureau Processing
Self Insurance Plans Annl Proc
Time and Cost Accounting Systm
Union Contract Processing
WCAB Mis and Deb Workload Stat
Work Injury Statistics

Insurance

Microfilm Licensing System
REV Microfilm Licensing System

Mental Health

Address Labels
Billing Syst for State Hospit
Budget Control
Client Census
Computer Program Inventory
Continuous Care Services
Cost and Billing
Cost Rdtg & Data Collect CR/DC
Demand Requests
Health Inventory System
Labor Relations
Patient History System
Position Control
State Hospital Statistics

Motor Vehicles

Alpha Name Index Processing
Amis Back-Up Recovery System
Auto Action/Review Generation
Bank Reconciliation
Co Assessor Special Vehicle
Data Collection System
Dealer File Processing
Dept Acctg Expenditure Report
Driver Control Processing
Drivers Lic Master File Audit
Drivers Lic Nonurgent Inquiry
Drivers License Issuance
Drivers License Mtr File Purge
EDP Equipment Billing
EDP Stock Inventory Format
ELP Reservation/Plate Order
ELP Retention/Cancel Notice
Gross Salary Report System
House Trailer Process
In-House File Review Control
Jury Selection Process
Measurement of Computer Workload

AGENCYAPPLICATION NAME

Motor Vehicles (con't)

Mgmt Reporting & Control
MOB Home Representative Test
Off-Hwy Vehicle Processing
Parking Citation Process
Personnel Process
Pot-Lic Control Rptg & Eval
Project Management Reporting
Rewrite of Vehicle Purge
Rewrite Veh Nonurgent Inquiry
Salesman/Representative Renew
Table Maintenance
Temp Non-Resident Com. Permits
Training Inf. Process
Urgent Inquiry Process
Vehicle Accounting
Vehicle Certificate Issuance
Vehicle Master File Update
Vehicle Registration Renewal
Vessel Processing
Video Data Input Statistics
Video Data Input Training

Office of Emergency Services

DES Inundation and Evacuation

Office of Traffic Safety

Grant Program Resource Allocat

Parks and Recreation

Artifacts Inv
Budgeting
Cashiering
Crime Reporting
Equipment Redesign
Expenditure Analysis
History and Park Stat Reporting
Misc Accounting
MT/ST Tape Processing
Parks and Rec Info
Pims Tape Processing
Program Management
Property Accounting
Reservation
Spooled CDC Computer Tape Prin
Visitor Attendance

Personnel Board

Benefits Survey
Budget Callot/Expenditure Ledge
Certification List Processing
Classification Level Tracking
Client Billing
Computer Systems
Cost Accounting
CPS Miscellaneous Processing
Examination Processing
Grievance Appeals Tracking
Local Govt Exam Processing
Management Information System
Merit Service System
Pay Resolution & Pay Scale
Personnel Position Reporting
Property Records
Salary Survey
Seniority List Processing
Sick Leave Accounting
SPB Management Information REP
SPB Management Information REP

AGENCYAPPLICATION NAME

Planning and Research

Environmental Document Review
Federal Grant Application Rev.
Special Reports

Postsecondary Education Comm.

Directory

Public Employees Retirement Sys.

Active Member Records
Actuarial Valuation Studies
ADM Internal Acctg & Billing
Benefit Payee System
Benefits Calculation & Payment
Common Inquiry System
Employer Roster System
Health Benefits System
Hospital & Medical Care Cover
Investments
IRS Reporting
Public Agency Membership Rptg
Retirement Roster System
Social Security
Subsidiary Accounting

Public Utilities Commission

Air Insurance File
Air Passenger & Seat Stats
Carrier File
Charter Party Carrier File
Computer Usage
Consumer Complaint File
Distance Table
DMV Equipment & Costs
Dump Truck Networks
Fuel and Oil Costs
Fuel Availability Reports
Gas Util. Accident Statistics
Grade Crossings (Accidents)
Grade Crossings (Maint)
Grade Crossings (Protection)
Greyhound Lines - West
HHG Underestimates File
Hiway Carriers Ratios
ICC File
Index of Formal Matters
Inter-Terminal Traffic Clow
Key punch Performance
Laobr Costs
Personnel Leave File
Plant Depreciation
Proceedings Monitor 'Pendac'
Program Information System
Project Index
Project Mgmt "Proview"
Project Monitor "Promise"
Public Affairs
PUC Position Status
Railroad Separation Priorities
Rate Spread (Electric)
Revenue by Mrt
Revenue Equipment History
RR Accidents Not At Grade Cros
STD Time Reports
Stockroom Inventory
Sum of Earnings (Gas & Elec)
Sum of Earnings (water)
Tariff Compliance File "Murts"
Tariff Service File

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Public Utilities Commission (con't)	Telephone Co. Files Traffic Flow (Current) Transportation Div Personnel Util. Div Man-Hours Utility Data File Water Consumption 5-Year Financial Summaries
Real Estate	DRE Exam Item Analysis DRE Licensing System DRE Mailing List System
Rehabilitation	Allotment Expenditure Ledger Automated Encumbrance Reporting Budget Development System Business Enterprise Program Case Service Bill System Caseload Management System Casheload Reporting System Industrially Injured Program Personnel & Affirmative Action Property Records Special Requests Statistical Analysis Statistical Reporting System Trust & Security Fund Programs Trust & Security Fund Programs Vendor Evaluation System
Savings and Loan	Computer File Access Programs MIS-Loan and Finance Miscellaneous Programs MLS Augmentation
Secretary of State	Campaign Disclosure Corporations General Mail Program Legislative Mail Program Lobbyist-Employer Media Equipment Notary Semi-Official Canvass Uniform Commercial Code Voter File
Social Services	Adoption Relinquishment Adoptions Resource Referral Ctr Affirmative Action Reporting Co Affirmative Action Data Col Co Workload & Admin Cost Comp Community Care Facilities Duplicate Aid Detection System Earnings Clearance Fair Hearings Calendar & Reptg Financial Accounting Exchange Fiscal Management Information Food Stamp Cash In Foster Care Reporting System General Reporting Personnel Mgmt Information Syst Property Inventory Quality Control Regulations Information System Rent Schedule Simulation Models Special Guide Dog Allowance State Supplemental Payment PGM

AGENCYAPPLICATION NAME

Student Aid Commission

College Opportunity Grant
Occup Education & Training Gnt
Pars/Ana System
Payment System
Scholarship New Applicant
Scholarship Renewal
State Student Incentive Grant

Teachers Retirement System

Accts/Receivable/Payable Syst
Active Member Syst
Benefit System
Benefits System
Gen Support and AD HOC Increase
General Support
Investment Accounting System
Valuation System
Verifications System

Teale Data Center

Account Payable
Account Receivable
Accounting
Billing System
BiWeekly Diskbackups
Burst-Decolarte Report
Daily Disk Backups
Equipment Delete List
Equipment Future List
Equipment Inventory List
Mailing Lables
Monthly Diskbackups
Opreplus
Opsalloh
Opsharm
Opsmomac
Opszsoxy
Personnel
Personnel Roster
Plotter Billing
Scheduling Daily
Scheduling Monthly
TDC Processors Manual
TMS Software Utilities
Weekly Disk Backups

Transportation

(Agent) Database Conversion
(Hides) Database Conversion
(Mac) Batch Billing
(Mac) Feasibility Study
(Permis)
(Permis) Feasibility Study
(Taco) Horizontal Alignment
AC Blanket
Accident Index Report Written
Accounting
Accounting Batch Process
Accounting Documents
Accounting Opea Workovor List
Accounting Pre-Edit
Acct Receivable
Acctg. Edits & Data Base Prep
Accts Receivable Bill Check
Accts Receivable System

AGENCY

Transportation (Con't)

APPLICATION NAME

Accts 81 82 and 84 Cash System
Address Labels
Admin. Management System
Administrative Reports
Aeronautics Mailing Labels
Aeronautics-Airport Inventory
Affirmative Action
Age Profiles
Air Transportation Planning
Airphoto Report
Airport Inventory Sys. Develop.
Alpha Listg of Indiv Leav Stmt
AMS Expenditures
Annual Hiway Condition Report
Annual Reports (78-79 FY)
Automated Design Plans
Automated Plot of Photo Data
Automobile Mgtment System
Bid Opening
Bridge Cost Analysis
Bridge Eng. Prod. Report Syst.
Bridge Engineering Services
Bridge Inventory Systems
Budget Management Reports
Budget Monitoring System (BMS)
Budget Preparation
Budget Status
Bulk Fuel
Bulk Fuel Accounting System
Car Pool Usage
Carbon Monoxide Sample Survey
Carpool Cartag System
Carpool Matching System
Carpooling
Cash Balance System
Citizen Participation Mailing
Commuter Computer Carpool Syst
Comparable Market Data
Computation of Fleet Char Rat
Computerize Year-End Closing
Constr Management System
Construct. Unit Cost & Data
Construction Contractor Staff.
Construction Management System
Contractor Safety Report
Contractors Safety Reports
Convert Off Of Equi Rep To Com
Correction For Eas Not Mas Fil
Cost Estimate Print
Daily Lab Charges
Data Management Statewide Sur
Data Management TPSIS
Data Processing
Delegated Testing
Depreciable Equip Inventory
Design Management System
Design Spec. Problems & Assist
Dist EDP Unit Billing
Dist Maint Traffic Stripe
Dist Reporting Unit Masterfi
Dist Telephone List
Dist 11 Personnel
District Management Info.
District of Mis Pilot
District Relocation Assist PGM
District Training Files
District VIOC
District 01 Pilot Budget

AGENCY

Transportation (Con'd)

APPLICATION NAME

District 7 Accounts Rec
Duplicate Accidents
E & S Outages
EDP Accounting System
EDP Billing System
EDP Budget System
EDP Proc. District Plan. Proj.
Emergency Rental Equip Cal Lst
Employee Parking
Employee Parking Decals
Employee Position Code Cost
Engineering Cost Reporting
Engineering Data Set System
Engineering Estimates (Maint)
Environmental Status
Equip Radio Communications Mgt
Equip Shop Operations Analysis
Equip Work Order Alltmt By Veh
Equip Work Orders Mgmt Rep Sys
Equipment Accounts Payable
Equipment CHC Report
Equipment Training Reports
Excess Lands Inventory
Expenditure Monitoring
Factsheet Reporting
Fed. Aid Interstate Cost Est.
Fed. Traffic Simulation Models
Federal Aid Reports
Federal Legis Hiway Reports
Federal Syst. Small Studies
Fire Extinguisher
G.F. Atkinson vs Caltrans
Geometronic Special Problems
Geometronics Application Supp.
H & V Control Index
Hansel Phelps Vs Caltrans
Highway Project Priority
Hiway Skid Resistance Inventor
Index of Construction Contract
Indirect Technical Support
Interactive Trans Land Use Mod
Interstate Cost Est. Sys.-Prod
Jury Duty Report
Key Punch Time
Keypunch Expenditure
Lab. Mat. & Research
Land and Build Maint Stat Modl
Land and Build Special Report
Land and Building Enhacements
Land and Buildings Inventory
Land Surveys Map Index
Legal Library
Legal Transactions
Legislative Budgeting System
Legislature Bill Status Report
Litigation Report
Local Assist Status Reports
Local Interagency Library
Local Road Finance Report'
Local Road Finance Reports-Dev
Mac Budget Monitor. Syst.
Machine Accounting (MAC)
Mailing Labels
Maint Historical Workplan
Maint Production Monit
Maint Roster
Maint Stiping Activity

AGENCY

Transportation (Cont'd)

APPLICATION NAME

Maint Unit Cost Program
Maint Acctg Edits & Data Base
Maint Count of Trucks
Maint Fed Current Bill Syst
Maint Fed Traffic Simulation
Maint Monthly & Annual Report
Maint of Engineer Construct
Maint U.C. Berkeley T.S.M.
Maintain "Finplan"
Maintain A Count of Trucks
Maintenance Management
Maintenance Management System
Maintenance Permit Index
Major Equipment Report
Management Reporting System
Manual Updates Distribution
Manuals Inventory System
Mass Transportation
Mass Transportation Product
Massman vs Caltrans
Mat Mgmt Syst Acct Subsynt
Material Management System
Materials Lab Daily Charges
Mckinsey & Co Study
MCS Maintenance Control System
Mice Signal Inventory
Miscellance Labels
MMS Chemical Use System
Modify Three (Permis) Programs
Monitoring System Reports
Monthly & Annual Financial Re.
Monthly Field Attendance Repor
MTC Equip & Radio Inventory
MTCE Equip Usage Program
Needs Study
New Accounting Systems Study
Newsletter List
Non Rental Equipment
Non-Expendable Inventory
Non-Expendable Property Inv.
Off Of Equ Sev Equ Pro Cont Sy
Off Of Equip Fleet Mgmt Enhnm
Off Of Equip Labor and Materls
Off of Equip Production Sysms
Office Engineer, ATMS Prod.
Office of Equip Production Sys
OFM616 Budget Reports
On-Line Bdgt. Cost & Display
Open Salary Advances
Operating Expense Monitoring
Overhaul Proration System
Overhead Rate
Overtime & Nuclear Report
Parcel Planning System
Pavement Condition Reporting
Pavement Management System
Pay Scales
Paycheck Distribution
Payroll Warrant Register
Payroll Warrant Register
Pending Construction
Personnel Customized Reports
Personnel Dele Testing & Certi
Personnel Engineerg Staf Ratio
Personnel Expenditure Monitoring
Personnel Hours For Month
Personnel Management Reports
Personnel Roster & Telephone

AGENCY

Transportation (Cont'd)

APPLICATION NAME

Personnel Salary Listing
Pollution Model Supp. Translab
Pollution Model Syst. Maint.
Position Control
Preliminary Est Of Cost Review
Private Car Mileage
Processing Charges
Prod and Main Of Pro Mgt Co Sy
Production of Federal Bill
Program Budget Conversion
Program Summaries
Progress Pay (Maint)
Progress Pay Development
Proj Development Man Yr Schedu
Proj History Storage and Analy
Proj Mangmt Control Video Inve
Proj Mangmt Control Dist Pro Chg
Project Control Boards
Project Control Reports
Project Devlp. Hiway Design Ap
Project Devlp. Training Users
Project Master File (PMF)
Public Information System
Public Road Mileage Reports
Public Roads Mileage Reports
Quarterly Est of Personel Doll
R/W Excess Land Roster
R/W Parcel Estimate
R/W Personnel Experience Roster
R/W Rent Outdoor Advrt Sgn Par
R/W Rental
R/W Rental System
R/W Rental 3-Day Notice
R/W Sales Prospt Bid Mail List
R/W Tenant Listing
Rap Inventory & Control System
Record of Instruction Manuals
Recreational Use Gas Tax Surv.
Register of Invoices
Reimbursed Local Assistance
Report of Man Years Worked
Reporting Improvements
Reproduct Serv Susp Acct
Reproduction Billing
Reproduction Summary
Reproduction Supply Inventory
Revise Fleet Management System
Rewrite (MAC) Cics Subsystem
Right of Way Capital Prog. Sys
Right of Way Control System
Right of Way Ea Log
Right of Way Excess Lands Syst
Right of Way Mgmt Syst Devel
Right of Way Misc Production
Right of Way Rental Reports
Right of Way Rental System
Right of Way Support Prog. Mgmt
Safety Decal Award System
Safety Hours Report
Safety Reports
Safety Reports Development
Scope - Caltrans Cics Monitor
Selective Record Modification
Serv & Supply Warehouse Labels
Signal & Lighting Bill System
Signal & Lighting Inventory Sy
Skid Resistance Inventory

AGENCY

Transportation (Con't)

APPLICATION NAME

Slide Selection
Spec. Requests For Hiway Plan
Spending Plan-Budget
Staff and Maint Man-Yr System
Staff Time Sheet Summary
Staff Time Sheets
Staffing Plan
State Furnished Materials
Statewide Planning Reporting
Status Freeway Expway Progress
Status of Construction Project
Status of Minor Contractos
Stores Inventory System Ehancmt
Structures Frame Syst. Conver.
Structures Maintenance System
Structures Spec. Problem Asst
Survey Photo Index
Surveys Management System
System MODS and Enhancements
Teale Data Center Needs Study
Telephone Directory
Teleprocessing & Key Punch Log
Terrain/Planimetry Digital Int
Time Sheet Edit Listing
Toll Bridge Accounts Receivable
Toll Collection Audit & History
Toll Registration Audit & Coll
Traffic Accident Pilot
Traffic Accident Report System
Traffic Count Tabulation
Traffic Management System
Traffic Performance
Traffic Sign Log
Traffic Signal Costs Report
Traffic Signal Inventory Billg
Traffic Volumes System
Traffic Volumes Systems
Training Activity
Training Gap Sheets
Training Report
Training Reports
Training Roster
Trans Planning Chrgs-Other Dist
Transaction Summary
Translab Applic. Maint. Suppt.
Translab-Spec. Prob. & Assist.
Transport. Develp. Fis. & Stat
Trasportation Funds Summary
Transporation System Managemt
Trial Balance
U.C. Berkeley Traffic Simulat.
Unit Management Proration
User Cost Distribution Report
Utility Billing
Utility Billing System
Veh Assignment & Storage Repor
Vehicle Usage Report
Water Consumption Worksheet
Weekday Vehicles Miles
West Coast Corridr Stu Add Iss
Word Processing Mailrm Traf Etc
Work Authorizations
Working Days Calendary

AGENCYAPPLICATION NAME

Treasurer

A/T Monthly Paid
Bank Deposit Reconciliation
Bond & Coupon Reconciliation
CTS Bank Reconciliation
Investment Information System
WIC-Management/Inventory Cont.

Veterans Affair

Cal-Vet Loans

Water Resources

Address Label System
Automated Budget System
CA Aqueduct Optimizing Model-I
CA Aqueduct Optimizing Model -II
Climate Information System
Contractor Billing System
CSO Management Systems
Equipment Accounting System
Finite Element Analysis
Ground Water Level Measurement
Land Class And Use
Legal Information System
Miscellaneous Develp & Maint.
Miscellaneous Non-Reimbursable
Miscellaneous Production
Miscellaneous Reruns
O & M Mgmt Information System
Personnel Management System
Photogrametric Support System
Program Cost Accounting System
Prompt (PERT)
Surface Water Measurement
Tape Conversions
Training Records System
Utility Cost Accounting System
Water Data Info System (WDIS)
Watermaster Accounting
Well Logs Information

Water Resources Control Board

Modeling
Other Systems
Statewide Wastewater Info Mgmt

APPENDIX C

GENERIC TYPE REPORT

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

PERSONNEL SYSTEMS CONTINUED

PERSONNEL - PERSONAL PROFILES/SKILLS REGISTER PERSONNEL BOARD

SENIORITY LIST PROCESSING	6	PROD
SENIORITY LIST PROCESSING	1	NEW
CLASSIFICATION LEVEL TRACKING	0	PROD
SPB MANAGEMENT INFORMATION REP	90	PROD
SPB MANAGEMENT INFORMATION REP	25	NEW
MANAGEMENT INFORMATION SYSTEM	68	NEW
DELEGATED TESTING	8	NEW
AGE PROFILES	8	NEW
JOB RANK	977	PROD
TOTAL	1,183**	

TRANSPORTATION

EMPLOYMENT DEV

PERSONNEL - PERSONAL PROFILES/SKILLS REGISTER

**

PERSONNEL - POSITION CONTROL GENERAL SERVICES HIGHWAY PATROL

PERSONNEL BOARD

PUBLIC UTILITIES COMM TEALE DATA CENTER TRANSPORTATION

OSP EMPLOYEE TIME REPORTING	2	PROD
PERSONNEL ROSTER FILE	9	PROD
AUTOMATED TRANSFER & RECRUIT	5	PROD
PERSONNEL POSITION REPORTING	2	PROD
PERSONNEL POSITION REPORTING	0	NEW
TRANSPORTATION DIV PERSONNEL	10	PROD
PERSONNEL ROSTER	0	PROD
POSITION CONTROL	12	PROD
POSITION CONTROL	17	NEW
EMPLOYEE POSITION CODE COST	3	PROD
PERSONNEL SALARY LISTING	2	PROD
PIM-DHS STAFFING LEVEL RPT SYS	958	NEW
PRS-PERSONNEL ROSTER-POSITIONS	7	PROD
POSITION EMPLOYEE ROSTER	6	PROD
CODES AND STANDARDS TIME RPTING	25	PROD
TOTAL	1,058**	

DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF DEVELOPMENTAL SERVICES HOUSING AND COMMUN DEV

PERSONNEL - POSITION CONTROL

**

PERSONNEL - LEAVE ACCOUNTING GENERAL SERVICES PERSONNEL BOARD PUBLIC UTILITIES COMM TRANSPORTATION

LEAVE BALANCE REPORTING SYSTEM	18	PROD
SICK LEAVE ACCOUNTING	1	PROD
PERSONNEL LEAVE FILE	45	PROD
(PERMIS)	94	PROD
STAFF TIME SHEETS	6	PROD
ALPHA LISTG OF INDIV LEAV STMT	0	PROD
JURY DUTY REPORT	0	PROD
LEAVE BALANCE	18	PROD
PERSONNEL MGMT INFORMATION SYS	188	PROD
PERSONNEL LEAVE ACCOUNTING	23	I
PERSONNEL PROCESS	0	PROD
TOTAL	393**	

EMPLOYMENT DEV SOCIAL SERVICES FOOD AND AGRICULTURE MOTOR VEHICLES

PERSONNEL - LEAVE ACCOUNTING

**

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

PERSONNEL SYSTEMS

CONTINUED

PERSONNEL - HISTORY OF PERSONNEL ACTIONS CONTROLLER

HIGHWAY PATROL

TRANSPORTATION EMPLOYMENT DEV

** PERSONNEL - HISTORY OF PERSONNEL ACTIONS

PERSONNEL - MISCELLANEOUS REPORTS CONTROLLER HIGHWAY PATROL

PARKS AND RECREATION PERSONNEL BOARD

TEALE DATA CENTER TRANSPORTATION

EMPLOYMENT HISTORY SYSTEM	1,951	PROD
EMPLOYMENT HISTORY-MAINTENANCE	613	PROD
EMPLOYMENT HISTORY-DEVELOPMENT	613	NEW
UNIFORM ALLOWANCE ANNIVERSARY	3	
ST PERS RD IN-SERVICE TRNG	1	PROD
TRANSACTION SUMMARY	9	NEW
PERSONNEL TRANSACTIONS (PTR)	160	PROD
TOTAL	3,350**	
HEALTH BENEFITS-DEVELOPMENT	0	NEW
CHP CADET PERSONNEL QUES.SURV.	3	PROD
LINEAR PLOT OF EMPLOYEE RESP.	1	
MANAGEMENT TEAM SURVEY	1	PROD
PIMS TAPE PROCESSING	15	NEW
PAY RESOLUTION & PAY SCALE	4	NEW
PAY RESOLUTION & PAY SCALE	1	PROD
LOCAL GOVT EXAM PROCESSING	20	PROD
LOCAL GOVT EXAM PROCESSING	1	NEW
MERIT SERVICE SYSTEM	1	PROD
CPS MISCELLANEOUS PROCESSING	1	PROD
EXAMINATION PROCESSING	65	NEW
EXAMINATION PROCESSING	460	PROD
CERTIFICATION LIST PROCESSING	77	PROD
CERTIFICATION LIST PROCESSING	1	NEW
PAY RESOLUTION & PAY SCALE SYS	5	PROD
GRIEVANCE APPEALS TRACKING	7	PROD
PERSONNEL	0	PROD
TRAINING GAP SHEETS	10	NEW
KEY PUNCH TIME	0	PROD
PERSONNEL CUSTOMIZED REPORTS	19	PROD
MODIFY THREE (PERMIS)PROGRAMS	11	PROD
PAY SCALES	7	NEW
(PERMIS) FEASIBILITY STUDY	6	NEW
PERSONNEL MANAGEMENT REPORTS	0	PROD
MCS MAINTENANCE CONTROL SYSTEM	8	
TELEPHONE DIRECTORY	0	PROD
PAYCHECK DISTRIBUTION	0	PROD
OVERTIME & NUCLEAR REPORT	0	PROD
PERSONNEL ROSTER & TELEPHONE	0	PROD
QUARTERLY EST OF PERSONEL DOLL	0	PROD
SAFETY HOURS REPORT	0	PROD
DIST 11 PERSONNEL	3	PROD
PERSONNEL DELE TESTING & CERTI	1	PROD
DIST TELEPHONE LIST	0	PROD
PERSONNEL HOURS FOR MONTH	0	PROD

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
PERSONNEL SYSTEMS	CONTINUED		
PERSONNEL - MISCELLANEOUS REPORTS			
WATER RESOURCES			
DEPARTMENT OF HEALTH SERVICES			
DEPARTMENT OF DEVELOPMENTAL SERVICES			
EQUALIZATION			
** PERSONNEL - MISCELLANEOUS REPORTS			
015			
** 015			
EQUALIZATION			
** 015			
PERSONNEL MANAGEMENT SYSTEM	CONTINUED		
BDC-BUDGET CONTROL SYSTEM		22	PROD
LABOR RELATIONS		14	PROD
PERSONNEL ACCOUNTING		0	PROD
TOTAL		13	PROD
		777**	
JOB ACCOUNTING			
TOTAL		4	PROD
		4**	
*** PERSONNEL SYSTEMS			
TOTAL		9,315***	

TOTAL COST (X 1000)	USE
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CLAIM PROCESSING/TRACKING

DEPARTMENT OF HEALTH SERVICES

CONTRACT MANAGEMENT
GENERAL SERVICES
TRANSPORTATION
DEPARTMENT OF HEALTH SERVICES

COMPLAINT/CASE TRACKING
PUBLIC UTILITIES COMM

CONSUMER AFFAIRS

LEGISLATIVE BILL TRACKING
FINANCE
LEGISLATIVE BILL TRACKING

EMPLOYMENT DEV

DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF MENTAL HEALTH

SERVICE CONTRACTS
INDEX OF CONSTRUCTION CONTRACT
CMS-CONTRACT MANAGEMENT SYSTEM
MSU-PHP SERVICES UTILIZATION
TOTAL

PROCEEDINGS MONITOR "PENDAC"
PROJECT MONITOR "PROMISE"
CTR-CAL TUMOR REGISTER SYSTEM
HRP-HIGH-RISK PREGNANCIES
LPT-LEAD POISONING TESTING
COMPLAIN/INVEST TRACKING SYST
DIVISION OF INVESTIGATION
TOTAL

LEGISLATIVE TRACKING/INFO
TOTAL

PRIVATE CAR MILEAGE
MONTHLY FIELD ATTENDANCE REPORT
EMPLOYMENT SECURITY AUTO RPTG
APPLICANT DATA SYSTEMS
CASELOAD REPORTING SYSTEM
CASELOAD REPORTING SYSTEM
CCA-CHOP CLAIMS ACCOUNTING SYS
CCS-CRIPPLED CHILDRENS SERV
CIS-CANCER INCIDENCE SYSTEM
HTS-HYPERTENSION SURVEY-STUDY
NBT-NEWBORN TESTING
CONTINUOUS CARE SERVICES

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

TRACKING SYSTEMS PEOPLE TRACKING

CONTINUED

** DEPARTMENT OF DEVELOPMENTAL SERVICES PEOPLE TRACKING

LABOR RELATIONS CONTINUED
PATIENT HISTORY SYSTEM
CLIENT CENSUS
CONTINUING CARE SERVICES
TOTAL

0 PROD
0 PROD
14 NEW
14 PROD
2,025**

MISCELLANEOUS TRACKING SYSTEMS EDUCATION GENERAL SERVICES PARKS AND RECREATION PLANNING AND RESEARCH

TRAFFIC SAFETY EDUCATION
RECORDS CENTER INFO SYSTEM
PARKS AND REC INFO
FEDERAL GRANT APPLICATION REV.
ENVIRONMENTAL DOCUMENT REVIEW
SPECIAL REPORTS
INDEX OF FORMAL MATTERS
PROJECT INDEX
SURVEY PHOTO INDEX
LITIGATION REPORT
BUDGET MONITORING SYSTEM (BMS)
EDP BUDGET SYSTEM
LEGAL TRANSACTIONS
DISTRICT 7 ACCOUNTS REC
DIST REPORTING UNIT MASTERFI
WELL LOGS INFORMATION
PUBLIC ENTITY LIABILITIES
CERT OF NEED EXEMPTION SYSTEM
FAIR HEARINGS CALENDAR & REPTG
CO WORKLOAD & ADMIN COST COMPA
OES INUNDATION AND EVACUATION
ARM-ARORTION MONITORING
ABS-ARORTION SURVEY SYSTEM
HCS-PAID CLAIMS MISCELLANEOUS
HWM-HAZARDOUS WASTE MANAGEMENT
MIS-DOCUMENT PROCESSING
TOTAL

2 PROD
7 PROD
0 PROD
71 PROD
38 PROD
14 PROD
10 PROD
10 PROD
0 PROD
13 PROD
18 PROD
29 NEW
0 PROD
0 PROD
0 PROD
3 PROD
9 PROD
16 NEW
208 PROD
5 PROD
4 PROD
3 NEW
3 NEW
2 PROD
32 NEW
0 PROD
497**

TRANSPORTATION

WATER RESOURCES EMPLOYMENT DEV HEALTH PLG & DEV, OFF. OF SOCIAL SERVICES

OFFICE OF EMERGENCY SERVICES DEPARTMENT OF HEALTH SERVICES

** FRANCHISE TAX MISCELLANEOUS TRACKING SYSTEMS

189

TEALE DATA CENTER EMPLOYMENT DEV

ACCOUNT PAYABLE
WIN WORK INCENTIVE
TRA TRADE READJUSTMENT ACT
ECC EMBOSSED CARD PAYMENTS
OPT OVERPAYMENTS
ICP INTERSTATE PAYMENT SYSTEM
UBR UNEMPLOY INS BANK RECONCIL
BPS U I BENEFIT PMT STATISTICS
ASC-ACCOUNTING SCHEDULE/CLAIMS
TOTAL

0 PROD
79 PROD
13 PROD
913 PROD
64 PROD
2 PR PROD
16 PROD
24 PROD
7 PROD
1,404**

DEPARTMENT OF HEALTH SERVICES

** 189

*** TRACKING SYSTEMS

TOTAL

5,500 ***

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
RETIREMENT/PENSIONS SYSTEMS			
**	EMPLOYEE RETIREMENT SYSTEM PUB EMPL RET SYS EMPLOYEE RETIREMENT SYSTEM	504 504**	PROD
**	IPS PENSION REPORTING PUB EMPL RET SYS IRS PENSION REPORTING	14 14**	PROD
**	PENSIONS - RECEIPTS ACCOUNTING PUB EMPL RET SYS TEACHERS RETIREMENT SYS	400 733 104 1,237**	PROD PROD NEW
**	PENSIONS - RECEIPTS ACCOUNTING PENSIONS - CONTRACT & EMPLOYER ACCOUNTING PUB EMPL RET SYS TEACHERS RETIREMENT SYS	84 68 4 25 181**	NEW PROD NEW PROD
**	PENSIONS - CONTRACT & EMPLOYER ACCOUNTING PENSIONS - DISBURSEMENTS TEACHERS RETIREMENT SYS	194 98 292**	PROD NEW
**	PENSIONS - DISBURSEMENTS PENSIONS - ROSTER PUB EMPL RET SYS PENSIONS - ROSTER	62 307 369**	NEW NEW
**	OTHER RETIREMENT/PENSION APPLICATIONS PUB EMPL RET SYS TEACHERS RETIREMENT SYS	89 35 75 199**	PROD PROD NEW
**	OTHER RETIREMENT/PENSION APPLICATIONS		
***	RETIREMENT/PENSIONS SYSTEMS	2,796***	

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS			
AUDIT			
FINANCE			
INDUSTRIAL RELATIONS		21	PROD
EMPLOYMENT DEV		28	PROD
DEPARTMENT OF HEALTH SERVICES		16	PROD
		19	PROD
FRANCHISE TAX		60	PROD
		11	PROD
		0	PROD
**	AUDIT	155**	
BENEFIT REPORTING			
DEPARTMENT OF HEALTH SERVICES		120	NEW
BENEFIT REPORTING		120**	
CASE/CLIENT REPORTING			
FIRE MARSHAL		10	PROD
INDUSTRIAL RELATIONS		64	NEW
DEPARTMENT OF HEALTH SERVICES		14	PROD
		140	NEW
DEPARTMENT OF DEVELOPMENTAL SERVICES		100	PROD
		27	PROD
		6	PROD
		103	PROD
		52	NEW
**	CASE/CLIENT REPORTING	606**	
FACILITY UTILIZATION			
TRANSPORTATION		0	PROD
HEALTH PLG & DEV, OFF. OF		11	PROD
HEALTH FACILITIES COMM.		474	PROD
DEPARTMENT OF HEALTH SERVICES		3	PROD
FACILITY UTILIZATION		488**	
HEALTH BENEFITS REPORTING			
PUB EMPL RET SYS		143	PROD
DEPARTMENT OF HEALTH SERVICES		238	PROD
		50	PROD
		48	NEW
		37	NEW
		79	NEW
**	HEALTH BENEFITS REPORTING	105	PROD
		709**	

GENERIC TYPE REPORT

TOTAL
COST
(X 100C) USE

PERFORMANCE REPORTING & EVALUATION SYSTEMS CONTINUED

HIGHWAY MAINTENANCE PROGRAM REPORTING TRANSPORTATION

MAINT ROSTER	0	PROD
FEDERAL LEGIS HIWAY REPORTS	64	PROD
ANNUAL HIWAY CONDITION REPORT	8	PROD
MAINTENANCE MANAGEMENT SYSTEM	195	PROD
MAINTENANCE MANAGEMENT SYSTEM	160	PROD
TRAFFIC SIGNAL INVENTORY BILLG	81	NEW
MAINTENANCE PERMIT INDEX	0	PROD
F&S OUTAGES	2	PROD
MTCE EQUIP USAGE PROGRAM	0	PROD
MAINT UNIT COST PROGRAM	1	PROD
SIGNAL & LIGHTING INVENTORY SY	0	PROD
MICE SIGNAL INVENTORY	0	PROD
WATER CONSUMPTION WORKSHEET	0	PROD
MMS CHEMICAL USE SYSTEM	0	PROD
DIST MAINT TRAFFIC STRIPE	0	PROD
MAINT STRIPING ACTIVITY	0	PROD
TOTAL	511**	

** HIGHWAY MAINTENANCE PROGRAM REPORTING

HIGHWAY RIGHT-OF-WAY REPORTING TRANSPORTATION

R/W PARCEL ESTIMATE	0	PROD
TOTAL	0**	

**

PAVEMENT CONDITION REPORTING TRANSPORTATION

PAVEMENT CONDITION REPORTING	29	PROD
PAVEMENT MANAGEMENT SYSTEM	58	PROD
PAVEMENT CONDITION REPORTING	53	NEW
PAVEMENT MANAGEMENT SYSTEM	34	NEW
TOTAL	174**	

**

PERT TRANSPORTATION

MASSMAN VS CALTRANS	8	PROD
HANSEL PHELPS VS. CALTRANS	8	PROD
G.F. ATKINSON VS CALTRANS	8	PROD
TOTAL	24**	

**

PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS FORESTRY PUBLIC UTILITIES COMM

PROGRAM TIME REPORTING SYSTEM	34	PROD
STD TIME REPORTS	21	PROD
UTIL. DIV MAN-HOURS	11	
KEYPUNCH PERFORMANCE	11	PROD
CONSTRUCTION CONTRACTOR STAFF.	3	PROD
R/W PERSONNEL EXPERIENCE ROSTR	0	PROD
STAFFING PLAN	0	PROD

TRANSPORTATION

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS		
PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS		
CONTINUED		
PERSONNEL ENGINEERING STAFF RATIO	0	PROD
CALIF HEALTH MANPOWER REPORTS	11	PROD
CASELOAD MANAGEMENT SYSTEM	6	PROD
CASELOAD MANAGEMENT SYSTEM	23	PROD
LBR-- LABOR RELATIONS	2	PROD
TRS--LIC & CERT TIME RPTG SYSTM	10	PROD
POSITION CONTROL	8	PROD
STAFFING STANDARDS	7	PROD
STAFFING STANDARDS	9	PROD
ASSESSMENT STANDARDS TIME RPTG	1	PROD
BUSINESS TAXES TIME REPORTING	15	PROD
DATA PROCESSING DIVISION T/R	51	PROD
INTERCOUNTY EQUALIZATION T/R	7	PROD
LEGAL TIME REPORTING	0	PROD
VALUATION TIME REPORTING	1	PROD
WORK MEASUREMENT	4	PROD
MGMT REPORTING & CONTROL	0	PROD
VIDEO DATA INPUT STATISTICS	0	PROD
TOTAL	235**	
MOTOR VEHICLES		
PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS		
PROGRAM EFFECTIVENESS EVALUATION		
EDUCATION	21	PROD
FINANCE	1,352	NEW
INDUSTRIAL RELATIONS	0	PROD
PUBLIC UTILITIES COMM	10	NEW
DEPARTMENT OF HEALTH SERVICES	53	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	51	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	6	PROD
PROGRAM EFFECTIVENESS EVALUATION	10	NEW
TOTAL	9	PROD
PROGRAM STATISTICAL REPORTING	1,512**	
INDUSTRIAL RELATIONS		
PARKS AND RECREATION		
TRANSPORTATION		
WORK INJURY STATISTICS	74	PROD
APPRENTICESHIP--VETERANS TRAIN	18	PROD
APPRENTICESHIP AGRMNTS AND STD	47	PROD
HISTORY AND PARK STAT REPORTING	12	NEW
VISITOR ATTENDANCE	0	PROD
CRIME REPORTING	0	PROD
RESERVATION	0	PROD
RECREATIONAL USE GAS TAX SURV.	0	PROD
FEDERAL SYST. SMALL STUDIES	1	PROD
PUBLIC ROAD MILEAGE REPORTS	11	PROD
LOCAL ROAD FINANCE REPORT	5	PROD
SPEC. REQUESTS FOR HIWAY PLAN.	4	
FED. AID INTERSTATF COST EST.	6	
PUBLIC ROADS MILEAGE REPORTS	16	PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

PERFORMANCE REPORTING & EVALUATION SYSTEMS CONTINUED
PROGRAM STATISTICAL REPORTING

ALCOHOL AND DRUG ABUSE

CONTINUED
LOCAL ROAD FINANCE REPORTS-DEV 16 PROD
TRAFFIC ACCIDENT PILOT 0 PROD
MONTHLY ADMISSION & UTILIZATIO 4 PROD
EVALUATION PROJECT 6 NEW
CLIENT ORIENTED DATA ACQUISITN 27 PROD
NAT DRUG ABUSE TREATMENT UTIL 18 PROD
DRUG PROGRAM EVALUATION 8 PROD
WOMEN IN CRISIS FILE 5 PROD
CLIENT STATUS REPORT 1
EMPLOYER STATISTICS 0 PROD
ES-202 REDESIGN (ERT) 70 PROD
MASTER INDUSTRY CLASSIFICATION 41 PROD
STATISTICAL REPORTING SYSTEM 61 PROD
STATISTICAL REPORTING SYSTEM 65 PROD
STATE SUPPLEMENTAL PAYMENT PGM 154 PROD
GENERAL REPORTING 189 PROD
FOSTER CARE REPORTING SYSTEM 4 PROD
ADOPTION RELINQUISHMENT 12 PROD
MDR-MEDI-DRUG REPORTING SYSTEM 35 PROD
MFR-MEDI-CAL FEDERAL REPORTS 57 PROD
MOP-MONTH OF PAYMENT REPORTS 150 PROD
MOS-MEDI-CAL MONTH OF SER RPRT 110 PROD
MTR-METRS-PAID CLAIMS 439 PROD
COMPUTER PROGRAM INVENTORY 3 PROD
VEHIC EMISS TESTING STAT ANALY 205 PROD
SAMPLE SELECTION EXPANSION 17 PROD
STATISTICAL ENUMERATION 23 PROD
STATE STUDENT INCENTIVE GRANT 4 PROD
TOTAL 1,918**

EMPLOYMENT DEV

REHABILITATION

SOCIAL SERVICES

DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF MENTAL HEALTH
CONSUMER AFFAIRS
EQUALIZATION

** STUDENT AID COMM
PROGRAM STATISTICAL REPORTING

PROJECT MANAGEMENT SYSTEM
AIR RESOURCES BOARD
ENERGY RESOURCES COMM
GENERAL SERVICES

PARKS AND RECREATION
TRANSPORTATION

PROJECT MANAGEMENT 12 PROD
MANAGEMENT INFORMATION SYSTEM 89 NEW
RES PROJECT MGMT SYSTEM PROD 13 PROD
OSA PROJECT MGMT SYSTEM 79 PROD
PROGRAM MANAGEMENT 0 PROD
CASH BALANCE SYSTEM 1 PROD
PROJ MANGMT CONTROL VIDEO INVE 60 NEW
PROJ MGMT CONTROL DIST PRO CHG 273 PROD
PROD AND MAIN OF PRO MGT CO SY 112 PROD
FACTSHEET REPORTING 0 NEW
REPORTING IMPROVEMENTS 0 NEW
LOCAL ASSIST STATUS REPORTS 18 NEW
PROJ HISTORY STORAGE AND ANALY 0 NEW
STATEWIDE PLANNING REPORTING 9 NEW
SYSTEM MODS AND ENHANCEMENTS 65 NEW
BUDGET STATUS 21 NEW
HIGHWAY PROJECT PRIORITY 20 NEW

TOTAL COST (X 1000)	USE:
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000

CONTINUED

PROGRAM BUDGET CONVERSION
PROGRAM SUMMARIES
DISTRICT OF MRS PILOT
PROJECT CONTROL REPORTS
ENVIRONMENTAL STATUS
STATUS OF MINOR CONTRACTS
PROJ DEVELOPMENT MAN YR SCHEDULE
PRMT (PERT)
SPECIAL REQUESTS
PROJECT MANAGEMENT REPORTING
TOTAL

PROJECT TIME REPORTING
PUB EMP RET SYS
PUBLIC UTILITIES COMM
WATER RESOURCES
DEPARTMENT OF HEALTH SERVICES
PROJECT TIME REPORTING
**

FIRE INCIDENT REPORTING SYST
VITAL STATISTICS REPORTS
VSB-VITAL STATISTICS-BIRTHS
VSC-VITAL STAT-FETAL DEATHS
VSD-VITAL STATISTICS-DEATHS
VSF-VITAL STAT DIVORCE FINAL
VSM-VITAL STAT-MARRIAGES
VSS-VITAL STAT SPECIAL REQUEST
TOTAL

MISCELLANEOUS PERFORMANCE REPORTING & EVALUATION SYSTEM

FINANCE

GENERAL SERVICES

PUBLIC UTILITIES COMM

TEALE DATA CENTER

MISCELLANEOUS SPECIAL ANALYSIS

DGS PROC QUARTERLY TONNAGE RPT

PUC POSITION STATUS

SCHEDULING DAILY

TRANSPORTATION

CONTRACTOR SAFETY REPORT
TRANSPORTATION FUNDS SUMMARY
TRANSPORT. DEVELP. FIS. & STAT
MASS TRANSPORTATION PRODUCT.
CONTRACTORS SAFETY REPORTS
MAINT PRODUCTION MONIT

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS			
MISCELLANEOUS PERFORMANCE REPORTING & EVALUATION SYSTEM			
	ENGINEERING COST REPORTING	10	PROD
	CONSTR MANAGEMENT SYSTEM	25	PROD
	DESIGN MANAGEMENT SYSTEM	16	PROD
	MANAGEMENT REPORTING SYSTEM	11	PROD
	TRAFFIC MANAGEMENT SYSTEM	14	PROD
	SKID RESISTANCE INVENTORY	9	PROD
	SURVEYS MANAGEMENT SYSTEM	18	PROD
	ENGINEERING COST REPORTING	16	NEW
	CONSTRUCTION MANAGEMENT SYSTEM	9	NEW
	CONSTRUCTION MANAGEMENT SYSTEM	32	NEW
	DESIGN MANAGEMENT SYSTEM	7	NEW
	MANAGEMENT REPORTING SYSTEM	6	NEW
	TRAFFIC MANAGEMENT SYSTEM	8	NEW
	HIWAY SKID RESISTANCE INVENTOR	32	NEW
	SURVEYS MANAGEMENT SYSTEM	33	NEW
	TOLL COLLECTION AUDIT & HISTRY	32	NEW
	TOLL REGISTRATION AUDIT & COLL	32	PROD
	STATEWIDE WASTEWATER INFO MGMT	515	PROD
	MISCELLANEOUS REQUESTS	8	NEW
	VENDOR EVALUATION SYSTEM	5	PROD
	ATH-AIR LAB INFORMATION SYS	0	NEW
	CMC-CMC OPERATOR ANALYSIS	9	PROD
	CMR CONGENITAL MALFORMATI RPTS	6	NEW
	DHC-ADULT DAY HEALTH CARE	143	NEW
	MCH-MATERNAL AND CHILD HEALTH	21	PROD
	TTV-TITLE V-MIS MCH	33	NEW
	MISCELLANEOUS PROCESSING	6	NEW
	ENVIRONMENT HEALTH & SAFETY	3	PROD
	TOTAL	1,140**	
DEPARTMENT OF DEVELOPMENTAL SERVICES			
**	MISCELLANEOUS PERFORMANCE REPORTING & EVALUATION SYSTEM		
*** PERFORMANCE REPORTING & EVALUATION SYSTEMS			
	TOTAL	9,338***	

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
REGULATORY SYSTEMS		
DUPLICATE BENEFIT ELIGIBILITY		
SOCIAL SERVICES	14	PROD
DEPARTMENT OF HEALTH SERVICES	129	NEW
	320	PROD
EQUALIZATION	15	PROD
** DUPLICATE BENEFIT ELIGIBILITY	478**	
HEALTH BENEFIT ELIGIBILITY		
DEPARTMENT OF HEALTH SERVICES		
AHS ALTERNATIVE HEALTH (PHP)	70	PROD
BUY-MEDICARE INSURANCE/BUY-IN	346	PROD
CDS-CDS CAPITATION SYSTEM	33	PROD
CEL-CID ELIGIBLES SUMMARY	48	PROD
CID-CENTRL ISSUANCE AND DELIVY	6,111	PROD
EHF-ELIGIBILITY HISTORY FILE	65	PROD
FRD-PHRED PROJECT SUPPORT	5	NEW
MCF-MEDICARE CODING FILE	39	PROD
MES-LOS ANGELES MI/GR MERGER	40	NEW
PCP-PAPER-COUNTY PROCESS	21	PROD
PIP-PILOT PROJ REPORTING SYSTM	9	PROD
QLB-QUARTERLY LIABILITY	177	PROD
WIC-WIC ELIGIBILITY SYSTEM	0	NEW
XVI--TITLE XVI MEDI-CAL ELIGIB	132	PROD
TOTAL	7,096**	
INVESTIGATIVE SUPPORT		
PUBLIC UTILITIES COMM		
EMPLOYMENT DEV		
SOCIAL SERVICES	11	PROD
DEPARTMENT OF HEALTH SERVICES	11	PROD
CONSUMER AFFAIRS	19	PROD
EQUALIZATION	55	PROD
INSPECTION STATUS	65	PROD
PRIVATE CAR	11	NEW
VALUATION	10	PROD
TOTAL	17	PROD
ORE LICENSING SYSTEM	106	PROD
DPE MAILING LIST SYSTEM	305**	
NOTARY		
VOTER FILE	152	PROD
EXL-LABORATORY EXAMINEE SYSTEM	20	PROD
LIC-NURSE ASSISTANT CERTIFICAT	72	PROD
PER-LABORATORY PERSONNEL SYSTM	157	PROD
RHL-RAD HEALTH-LINCENIATE	8	PROD
RHT-RHS-X-RAY TECHNOLOGY	3	PROD
SSA-SANITARIAN REGISTRATION SY	17	PROD
	6	PROD
	16	PROD
	5	PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

REGULATORY SYSTEMS		CONTINUED	
REGISTRATION/LICENSING - PERSONNEL			
CONSUMER AFFAIRS			
	WSS-LARGE WATER INFO SYSTEM	6	PROD
	CONTRACTORS	86	PROD
	EXAMINATION SYSTEM	16	PROD
	MASTER FILE	907	PROD
	REGISTERED NURSE EXAM	27	PROD
	VOCATIONAL NURSE EXAM	28	NEW
	LITTER ASSESSMENT	261	PROD
	REGISTRATION	280	PROD
	DRIVERS LICENSE MTR FILE PURGE	0	PROD
	DRIVERS LICENSE ISSUANCE	0	PROD
	DRIVERS LIC MASTER FILE AUDIT	0	PROD
	DRIVER CONTROL PROCESSING	0	PROD
	POST-LIC CONTROL RPTG & EVAL	0	PROD
	IN-HOUSE FILE REVIEW CONTROL	0	PROD
	AUTO ACTION/REVIEW GENERATION	0	PROD
	MOB HOME REPRESENTATIVE TEST	0	PROD
	SALESMAN/REPRESENTATIVE RENEW	0	PROD
	TOTAL	2,067**	
**	REGISTRATION/LICENSING - PERSONNEL		
REGISTRATION/LICENSING - FACILITIES AND INSTITUTIONS			
CORPORATIONS			
PUBLIC UTILITIES COMM			
	LICENSING SYSTEM	33	PROD
	HCSP LICENSING SYSTEM	6	PROD
	CARRIER FILE	142	PROD
	TARIFF SERVICE FILE	67	PROD
	DMV EQUIPMENT & COSTS	53	PROD
	CHARTER PARTY CARRIER FILE	10	PROD
	AIR INSURANCE FILE	10	PROD
	COMMUNITY CARE FACILITIES	64	PROD
	FIS-FACILITIES INFORMATION SYS	53	PROD
	LFD-LAB FACILITY DATA BASE	0	NEW
	PTL-PROFICIENCY TESTING OF LAB	13	NEW
	RHM-RHS RADIOACTIVE MATERIALS	4	PROD
	RHR-RAD HEALTH-RAD REGISTRATIO	9	PROD
	NURSERY LICENSING	53	PROD
	FUEL PUMPS	31	PROD
	MHP DATA REPORTING SYSTEM	46	NEW
	DEALER FILE PROCESSING	0	PROD
	TOTAL	594**	
**	REGISTRATION/LICENSING - FACILITIES AND INSTITUTIONS		
REGULATORY INSPECTION REPORTING			
FORESTRY			
INDUSTRIAL RELATIONS			
PUBLIC UTILITIES COMM			
	FIRE PREVENTION INSPECTION REP	30	PROD
	OSHA MIS SDR AND RPI	159	PROD
	ELETR INSPT SCHED AND ACCT REC	18	PROD
	PV INSPECT SCHED AND ACCT REC	61	PROD
	UTILITY DATA FILE	27	PROD
	GRADE CROSSINGS (ACCIDENTS)	24	PROD
	RR ACCIDENTS NOT AT GRADE CROSS	0	PROD

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USF
REGULATORY SYSTEMS			
REGULATORY INSPECTION REPORTING			
CONTINUED			
CONTINUED			
	GAS UTIL-ACCIDENT STATISTICS	11	PROD
	TARIFF COMPLIANCE FILE "MURTS"	11	PROD
	TRAFFIC FLOW (CURRENT)	24	PROD
	LABOR COSTS	11	PROD
	OFFICE OF EQUIP PRODUCTION SYS	6	PROD
	LAB-LABORATORY FACILITY SYSTEM	25	PROD
	WEV-SMALL WATER SYSTEMS EVALUA	15	PROD
	FAD-FOOD & DRUG INSPECTI REPTS	9	PROD
	TOTAL	431**	
CHP PRESS CARD INVENTORY			
	LABOR STANDARDS ENFORCEMENTS MIS	2	PROD
	OSHA SURVEY	53	NEW
	MICROFILM LICENSING SYSTEM	184	PROD
	REV MICROFILM LICENSING SYSTEM	461	PROD
	5-YR FINANCIAL SUMMARIES	101	NEW
	TELEPHONE CO-FILES	11	PROD
	HHG UNDERESTIMATES FILE	22	PROD
	PLANT DEPRECIATION	11	PROD
	DISTANCE TABLE	11	PROD
	RAILROAD SEPARATION PRIORITIES	10	PROD
	SUM OF EARNINGS (GAS & ELEC)	10	PROD
	FUEL AVAILABILITY REPORTS	11	PROD
	RATE SPREAD (ELECTRIC)	10	PROD
	AIR PASSENGER & SEAT STATS	10	PROD
	INTER-TERMINAL TRAFFIC FLOW	11	PROD
	FUEL AND OIL COSTS	24	PROD
	REVENUE EQUIPMENT HISTORY	11	PROD
	GREYHOUND LINES - WEST	11	PROD
	ICC FILE	11	PROD
	MIS-LOAN AND FINANCE	129	PROD
	COMPUTER FILE ACCESS PROGRAMS	85	PROD
	MISCELLANEOUS PROGRAMS	70	PROD
	MLS AUGMENTATION	6	NEW
	MAINT HISTORICAL WORKPLAN	0	PROD
	FIRE EXTINGUISHER	0	PROD
	MONETARY DETERMINATIONS (MON)	1,459	PROD
	UNEMPLOY COMP/FEED EMP & EXMILI	20	PROD
	WAGE RECORD PROCESSING	4,628	PROD
	QUALITY CONTROL	97	PROD
	REGULATIONS INFORMATION SYSTEM	0	NEW
	BCP-BIRTH CERTIFICATE RELIARIL	3	NEW
	AMB-RENE EXPLANATION SYSTEM	30	PROD
	EMS-EMERGENCY MEDICAL SERVICES	2	PROD
	SRS-STERILIZATION RPTG SYSTEM	15	NEW
	PROPERTY RECORDS	1	PROD
	TOTAL	7,541**	
EQUALIZATION			
MISCELLANEOUS REGULATORY SYSTEM			
CONTINUED			
CONTINUED			
REGULATORY INSPECTION REPORTING			
CONTINUED			
CONTINUED			
	TRANSPORTATION		
	DEPARTMENT OF HEALTH SERVICES		
REGULATORY INSPECTION REPORTING			
**	REGULATORY INSPECTION REPORTING		
MISCELLANEOUS REGULATORY SYSTEM			
	HIGHWAY PATROL		
	INDUSTRIAL RELATIONS		
	INSURANCE		
	PUBLIC UTILITIES COMM		
SAVINGS AND LOAN			
TRANSPORTATION			
EMPLOYMENT DEV			
SOCIAL SERVICES			
DEPARTMENT OF HEALTH SERVICES			
EQUALIZATION			
MISCELLANEOUS REGULATORY SYSTEM			
**	EQUALIZATION		
MISCELLANEOUS REGULATORY SYSTEM			

GENERIC TYPE REPORT

REGULATORY SYSTEMS		CONTINUED		TOTAL COST (X 1000)	USE
REGISTRATION/LICENSING - VEHICLES, VESSELS					
MOTOR VEHICLES					
**	REGISTRATION/LICENSING - VEHICLES, VESSELS	VEHICLE REGISTRATION RENEWAL	0	PROD	
		VEHICLE MASTER FILE UPDATE	0	PROD	
		VEHICLE CERTIFICATE ISSUANCE	0	PROD	
		REWRITE OF VEHICLE PURGE	0	NEW	
		TEMP NON-RESIDENT COM.PERMITS	0	NEW	
		VESSEL PROCESSING	0	PROD	
		ELP RETENTION/CANCEL NOTICE	0	PROD	
		ELP RESERVATION/PLATE ORDER	0	PROD	
		OFF-HGWAY VEHICLE PROCESSING	0	PROD	
		TOTAL	0**		
FOOD STAMP CASH IN TOTAL					
			130	NEW	
			130**		
SPECIAL GUIDE DOG ALLOWANCE					
			10	PROD	
		TOTAL	10**		
TOTAL					
			18,652***		
*** REGULATORY SYSTEMS					

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
STATISTICAL/SCIENTIFIC SYSTEMS COMPUTER MODEL		
AIR RESOURCES BOARD		
STATEWIDE TRAVEL FORECASTS	40	PROD
CAL-TECH AIR QUALITY MODELING	150	NEW
EPA'S UNAMAP MODELS	23	NEW
SMOG AIR QUALITY MODELING SYST	110	PROD
DIRECT TRAVEL IMPACT MODEL	29	PROD
MOTOR VEHICLE EMISSIONS MODEL	14	PROD
ACP SCREENING HANDBOOK	49	NEW
METRO-APEX	7	PROD
CAL CON PUBLICATIONS	8	PROD
RESIDENTIAL STANDARDS	35	PROD
NOI AFC PROCESSING	17	NEW
LOCATIONAL PLANNING	3	NEW
DEMAND FORECASTING	113	PROD
SUPPLY ASSESSMENT	46	PROD
DEMAND CONFORMANCE	40	PROD
POLLUTION MODELING	16	PROD
STATISTICAL EDUCATION FINANCIN	24	PROD
WATER CONSUMPTION	11	PROD
EDP PROC. DISTRICT PLAN. PROJ.	566	PROD
REIMBURSED LOCAL ASSISTANCE	20	PROD
TRANSPORTATION SYSTEM MANAGEMT	8	NEW
MODELING	55	PROD
MODELING	51	PROD
PARS/ANA SYSTEM	4	PROD
TOTAL	1,439**	
STUDENT AID COMM		
COMPUTER MODEL		
ENGINEERING/SCIENTIFIC CONSERVATION		
ENERGY RESOURCES COMM		
TRANSPORTATION		
OIL AND GAS PRODUCTION ANAL.	295	NEW
DIRECT THERMAL SYSTEMS	7	NEW
BRIDGE ENGINEERING SERVICES	405	PROD
STRUCTURES FRAME SYST. CONVER.	15	PROD
PROJECT DEVL. HIWAY DESIGN AP	267	PROD
PROJECT DEVL.-TRAINING USERS	44	PROD
(AGENT) DATABASE CONVERSION	48	NEW
STURCTURES SPEC. PROBLEM ASST	29	NEW
(HIDES) DATABASE CONVERSION	19	NEW
COST ESTIMATE PRINT	12	NEW
TERRAIN/PLANIMETRY DIGITAL INT	40	NEW
DESIGN SPEC. PROBLEMS & ASSIST	12	NEW
(TAGO) HORIZONTAL ALIGNMENT	13	NEW
GEOMETRONIC SPECIAL PROBLEMS	9	NEW
TRANSLAR APPLIC. MAINT. SUPPT.	48	PROD
POLLUTION MODEL SUPP. TRANSLAR	36	PROD
TRANSLAB-SPEC. PROB. & ASSIST.	6	PROD
AC BLANKET	0	PROD
ENGINEERING DESIGN	0	NEW
CARBON MONOXIDE SAMPLE SURVEY	0	PROD
FINITE ELEMENT ANALYSIS	16	PROD
WATER RESOURCES		

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

STATISTICAL/SCIENTIFIC SYSTEMS ENGINEERING/SCIENTIFIC	CONTINUED	CONTINUED	FINITE ELEMENT ANALYSIS	15	PROD
			GROUND WATER LEVEL MEASUREMENT	70	PROD
ENGINEERING/SCIENTIFIC			SURFACE WATER MEASUREMENT	100	PROD
			WATER DATA INFO SYSTEM (WDIS)	119	PROD
			CLIMATE INFORMATION SYSTEM	19	PROD
			LAND CLASS AND USE	9	PROD
			TOTAL	1,653**	
ENGINEERING COST ESTIMATE ENERGY RESOURCES COMM TRANSPORTATION			SOLAR ECONOMICS	8	NEW
			BRIDGE COST ANALYSIS	8	PROD
			ENGINEERING ESTIMATES (MAINT)	102	PROD
			ENGINEERING EST. DEVELOPMENT	84	NEW
			PRELIMINARY EST OF COST REVIEW	14	NEW
ENGINEERING COST ESTIMATE			TOTAL	216**	
GEOLOGICAL CONSERVATION			GRAVITY-MAGNETIC ANALYSIS	1	PROD
			STRONG MOTION INSTR PROGRAM	46	PROD
			EARTHQUAKE CATALOG	6	PROD
			EARTHQUAKE LOCATION ANALYSIS	4	PROD
			PETROLEUM	10	PROD
EQUALIZATION			TOTAL	67**	
GEOLOGICAL TRANSPORTATION			GEOMETRONICS APPLICATION SUPP.	46	PROD
			AUTOMATED PLOT OF PHOTO DATA	14	NEW
			AIRPHOTO REPORT	0	PROD
			TOTAL	60**	
HEALTH RESEARCH & ANALYSIS HEALTH PLG & DEV, OFF. OF DEPARTMENT OF HEALTH SERVICES			INVENTORY OF LIC HLTH FACILITI	1	PROD
			ABT-ALTERNATIVE BIRTHING	7	NEW
			ESL-ENVIRONMENTAL STUDIES LAB	4	PROD
			GDC-GENETIC DISEASE CONTROL	2	PROD
			PMS-PREGNANCY MONITORING	150	NEW
HEALTH RESEARCH & ANALYSIS			VRL-VIRAL AND RICKETTSIAL LAB	53	PROD
			TOTAL	217**	
MANAGEMENT SCIENCE EDUCATION WATER RESOURCES			CAL SCH FINANCE EQUAL SIMU SYS	78	PROD
			CA AQUEDUCT OPTIMIZING MODEL-I	9	PROD
			CA AQUEDUCT OPTIMIZING MOD-II	87	NEW
			SIMULATION MODELS	167	PROD
			TOTAL	341**	

USE	TOTAL COST (X 1000)
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STATISTICAL/SCIENTIFIC SYSTEMS

**AUTOMATED DESIGN PLANS
ACCIDENT INDEX REPORT WRITTEN
PHOTOGRAMETRIC SUPPORT SYSTEM
TOTAL**

20 NEW
0 PROD
5 PROD
25**

WEEKDAY VEHICLES MILES	0	PROD
TOTAL	0**	

AGRICULTURAL BURN DATA SYSTEM	15	PROD
METEOROLOGY DATA SYSTEM	23	PROD

AGRICULTURAL BURN DATA SYSTEM
METEOROLOGY DATA SYSTEM
TECHNICAL ASSISTANCE
APPLIANCE EFFICIENCY STANDARDS
LOAD MANAGEMENT
QUARTERLY FUEL AND ENERGY RPTG
BASIC PROGRAMS USING TENET
FIRE OPER CHARACTER USING SIMU
UNION CONTRACT PROCESSING
SALARY SURVEY
SALARY SURVEY

15	PROD
23	PROD
53	NEW
14	PROD
62	PROD
19	PROD
2	PROD
16	PROD
21	PROD
0	NEW
40	PROD

REVENUE ITEM MKT
DRE EXAM ITEM ANALYSIS
INDIRECT TECHNICAL SUPPORT
AIR TRANSPORTATION PLANNING
INTERACTIVE TRANS LAND USE MOD
WEST COAST CORRDR STU ADD ISS
COMPARABLE MARKET DATA

62	PRDD
54	NEW
48	PRDD
41	PRDD

APPEALS STATISTICS
MIGRANT FAMILY STATISTICS
D I TERMINATED SPELLS STATS
DETERMINATION OF ELIGIBILITY
U I CLAIMANT CHARACTERISTICS
CURRENT EMPLOYMENT ESTIMATES
OCCUPATIONAL EMPLOYMENT STATS
LOCAL OFFICE STAT
CONTINUOUS WAGE & BENEFIT HIST
ADVERSE SELECTION
WAGE RECORD STATISTICS
MINORITY RACE STUDY

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
ADVERSE SELECTION STAT	3	PROD
NEW CLAIMS STAT	9	PROD
STATISTICAL ANALYSIS	8	PROD
CLS-CHEMISTRY LAB SERVICES	1	PROD
VEC-VECTOR CONTROL	2	PROD
STATE HOSPITAL STATISTICS	41	PROD
STATE HOSP SPECIAL REQUESTS	4	PROD
STATE HOSP SPECIAL REQUESTS	10	NEW
STATE HOSPITAL RPTS & REQUESTS	2	PROD
VEHIC EMISS TESTING STAT ANALY	5	NEW
STATS AND ACCOUNTING OPERATION	8	PROD
PESTICIDE INFORMATION	191	PROD
FERTILIZER & MINERAL	33	PROD
MILK STABILIZATION	18	PROD
AGRICULTURAL STATISTICS	0	PROD
SPECIAL GRAPE ACREAGE	2	PROD
TOTAL	2,079**	

STATISTICAL/SCIENTIFIC SYSTEMS CONTINUED
MISCELLANEOUS STATISTICAL/SCIENTIFIC SYSTEM

REHABILITATION
DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF MENTAL HEALTH
DEPARTMENT OF DEVELOPMENTAL SERVICES

CONSUMER AFFAIRS

FOOD AND AGRICULTURE

** MISCELLANEOUS STATISTICAL/SCIENTIFIC SYSTEM

*** STATISTICAL/SCIENTIFIC SYSTEMS

TOTAL 6,007***

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

OPERATIONAL ASSISTANCE SYSTEMS CATALOGS, INDEXES, CROSS REFERENCES AND DIRECTORIES EDUCATION

CURRICULUM SERVICES	0	PROD
BUREAU OF PUBLICATIONS	19	PROD
SPECIAL EDUCATION	28	PROD
EDUCATIONAL DATA MGMT SYSTEMS	10	PROD
EDUCATIONAL DATA MGMT SYSTEMS	0	PROD
SPECIAL EDUCATION	0	PROD
ARSON CROSS-INDEX	5	PROD
CONTRACTOR SERVICE VENDOR	37	PROD
OFFICE OF SMALL BUSINESS	6	PROD
OSHA INDEX	11	PROD
DIRECTORY	0	PROD
PROGRAM INFORMATION SYSTEM	21	PROD
UNIFORM COMMERCIAL CODE	344	PROD
CORPORATIONS	253	PROD
LOBBYIST-EMPLOYER	10	PROD
CAMPAIGN DISCLOSURE	19	PROD
TMS SOFTWARE UTILITIES	457	PROD
LEGAL LIBRARY	6	PROD
MAINT. OF ENGINEER CONSTRUCT	8	PROD
WORD PROCESSING MAILRM TRAF ETC	0	PROD
MAINTENANCE MANAGEMENT	0	PROD
SLIDE SELECTION	0	PROD
EMPLOYEE PARKING DECALS	0	PROD
EMERGENCY RENTAL EQUIP CAL LST	0	PROD
LOCAL INTERAGENCY LIBRARY	0	PROD
LAND SURVEYS MAP INDEX	0	PROD
H&V CONTROL INDEX	0	PROD
WORK AUTHORIZATIONS	0	PROD
DUPLICATE ACCIDENTS	0	PROD
LEGAL INFORMATION SYSTEM	35	PROD
WATERMASTER ACCOUNTING	16	PROD
MANDATORY EMPLOYER LISTING	11	PROD
IOR-CENTRAL INDEX OF OFFI RECS	24	NEW
TAPE LIBRARY	170	PROD
PRAD-DOCUMENT PROCESSING	0	PROD
ALPHA NAME INDEX PROCESSING	0	PROD
JURY SELECTION PROCESS	0	PROD
TABLE MAINTENANCE	0	PROD
TOTAL	1,490**	

** CATALOGS, INDEXES, CROSS REFERENCES AND DIRECTORIES

COMPUTER UTILITY		
FORESTRY	12	PROD
PARKS AND RECREATION	2	PROD
PERSONNEL BOARD	36	PROD
PUBLIC UTILITIES COMM	11	PROD
TEALE DATA CENTER	0	PROD
TRANSPORTATION	0	PROD
MISCELLANEOUS SERVICES		
SPOOLED CDC COMPUTER TAPE PRIN	96	PROD
COMPUTER SYSTEMS		
COMPUTER USAGE		
OPREPLUS		
SELECTIVE RECORD MODIFICATION		
SCOPE - CALTRANS CICS MONITOR		

GENERIC TYPE REPORT

	CONTINUED	TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS			
COMPUTER UTILITY			
WATER RESOURCES			
MOTOR VEHICLES			
COMPUTER UTILITY			
**			
DATA BASE INQUIRY			
AIR RESOURCES BOARD			
GENERAL SERVICES			
PUB EMPL RET SYS			
TRANSPORTATION			
EQUALIZATION			
MOTOR VEHICLES			
**			
DATA BASE INQUIRY			
DATA REDUCTION/ENTRY			
TRANSPORTATION			
MOTOR VEHICLES			
**			
DATA REDUCTION/ENTRY			
DATA PREPARATION			
AIR RESOURCES BOARD			
PARKS AND RECREATION			
TRANSPORTATION			
**			
DATA PREPARATION			
INVENTORY CONTROL AND DISTRIBUTION			
EDUCATION			
TEALE DATA CENTER			
TRANSPORTATION			
**			
EMPLOYMENT DEV			
DEPARTMENT OF MENTAL HEALTH			
INVENTORY CONTROL AND DISTRIBUTION			
CONTINUED			
TAPE CONVERSIONS			
AMIS BACK-UP RECOVERY SYSTEM			
TOTAL			
AREA SOURCES EMISSIONS SYSTEM			
EMISSION INVENTORY SYSTEM			
CALIF AEROMETRIC DATA MGMT SYS			
CALIF AIR QUALITY DATA SYSTEM			
STATE POLICE-CRIME & INC. RPTG			
COMMON INQUIRY SYSTEM			
TRAFFIC ACCIDENT REPORT. SYST.			
TRAFFIC ACCIDENT REPORT SYST.			
POLLUTION MODEL SYST. MAINT.			
DATA MANAGEMENT TPSIS			
BTCIS			
REWRITE VEH NONURGENT INQUIRY			
URGENT INQUIRY PROCESS			
DRIVERS LIC NONURGENT INQUIRY			
TOTAL			
TRAFFIC COUNT TABULATION			
DATA COLLECTION SYSTEM			
TOTAL			
MODELING STUDIES DATA STAGING			
MT/ST TAPE PROCESSING			
DATA MANAGEMENT STATEWIDE SURV			
TOTAL			
EDUC AGENCY FOR SURPLUS PROPER			
STATE LIBRARY SERVICES			
EQUIPMENT DELETE LIST			
EQUIPMENT INVENTORY LIST			
NON-EXPENDABLE PROPERTY INV.			
MANUALS INVENTORY SYSTEM			
MISCELLANCE LABELS			
SERV & SUPPLY WAREHOUSE LABELS			
EXCESS LANDS INVENTORY			
DEPARTMENTAL INVENTORY CONTROL			
HEALTH INVENTORY SYSTEM			
TOTAL			

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

OPERATIONAL ASSISTANCE SYSTEMS CONTINUED

INVENTORY CONTROL/MATERIAL MANAGEMENT

EDUCATION
FINANCE
FORESTRY
GENERAL SERVICES
HIGHWAY PATROL
PERSONNEL BOARD
PUBLIC UTILITIES COMM
TRANSPORTATION

BUSINESS SERVICES
DATA PROCESSING MANAGEMENT
MATERIAL MANAGEMENT SYSTEM
OSP STOCK STATUS SYSTEM
STWIDE LOGISTICS AND MATERIAL
STORES & EQUIPMENT INVENTORY
PROPERTY RECORDS
STOCKROOM INVENTORY
MATERIAL MANAGEMENT SYSTEM
MATERIAL MANAGEMENT SYSTEM
OFF OF EQUIP PRODUCTION SYS
OFFICE OF EQUIP PRODUCTION SYS
STORES INVENTORY SYSTM EHANCMT
EQUIP RADIO COMMUNICATIONS MGT
DEPRECIABLE EQUIP INVENTORY
RAP INVENTORY CONTROL SYSTEM
WIC-MANAGEMENT/INVENTORY CONT.
PROPERTY INVENTORY
HIS-HEALTH INVENTORY SYSTEM
FOOD SERVICES MANAGEMENT
EDP STOCK INVENTORY FORMAT
TOTAL

4 PROD
28 PROD
13 PROD
72 PROD
550 PROD
26 PROD
1 PROD
11 PROD
155 PROD
89 NEW
89 PROD
3 PROD
30 NEW
19 NEW
0 PROD
0 PROD
18 PROD
39 PROD
15 NEW
17 PROD
0 NEW
1,179**

** INVENTORY CONTROL/MATERIAL MANAGEMENT

KEYWORD INFORMATION RETRIEVAL/UPDATING

TRANSPORTATION

** KEYWORD INFORMATION RETRIEVAL/UPDATING

MAILING LISTS/LABELS
ENERGY RESOURCES COMM
GENERAL SERVICES

LEGISLATURE BILL STATUS REPORT
TOTAL

15 PROD
15**

HIGHWAY PATROL
INDUSTRIAL RELATIONS
SECRETARY OF STATE

TEALE DATA CENTER
TRANSPORTATION

MASS MAILING
DGS PROCUREMENT OUTDOOR CALIF
DGS PROC ADMIN TITLE SURSCRIPT
OSP LEGISLATIVE BILL ROOM
CHP MONTHLY MAGAZINE LABELING
COMMUNICATIONS UNIT PROCESSING
GENERAL MAIL PROGRAM
LEGISLATIVE MAIL PROGRAM
MAILING LABELS
MASS TRANSPORTATION
PUBLIC INFORMATION SYSTEM
ADDRESS LABELS
MAILING LABELS
RECORD OF INSTRUCTION MANUALS
R/W SALES PROSPT RID MAIL LIST
CITIZEN PARTICIPATION MAILING
NEWSLETTER LIST

11 PROD
5 PROD
22 PROD
6 PROD
1 PROD
9 PROD
16 PROD
57 PROD
0 PROD
14 NEW
7 PROD
7 PROD
0 PROD
0 PROD
0 PROD
0 PROD
0 PROD

GENERIC TYPE REPORT

		CONTINUED		TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS MAILING LISTS/LABELS		CONTINUED			
	WATER RESOURCES		MANUAL UPDATES DISTRIBUTION	1	PROD
	ALCOHOL AND DRUG ABUSE		ADDRESS LABELS	0	PROD
	EMPLOYMENT DEV		ADDRESS LABEL SYSTEM	1	NEW
	DEPARTMENT OF HEALTH SERVICES		MAILING LABELS	4	PROD
	DEPARTMENT OF MENTAL HEALTH		ES PROMOTIONAL MAIL INSERTS	42	PROD
	DEPARTMENT OF DEVELOPMENTAL SERVICES		ADR-ADDRESS (MAILING) LABELS	15	PROD
			ADDRESS LABELS	1	PROD
			DEVELOP DISABILITIES SERVICES	3	PROD
			REGIONAL CENTER PROJECTIONS	2	PROD
**	MAILING LISTS/LABELS		TOTAL	224**	
	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - JOB SHOP				
	TRANSPORTATION		EQUIP SHOP OPERATIONS ANALYSIS	28	NEW
			PENDING CONSTRUCTION	0	PROD
**	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - JOB SHOP		PROJECT CONTROL BOARDS	1	PROD
			TOTAL	29**	
	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - CONTINUOUS				
	TRANSPORTATION		OFF OF EQU SEV EQU PRO CONT SY	19	NEW
	DEPARTMENT OF HEALTH SERVICES		MBL-MBL SPECIMEN CONTROL SYSTF	52	NEW
**	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - CONTINUOUS		TOTAL	71**	
613	TRANSPORTATION			0	PROD
**	613		REPRODUCTION BILLING	0**	
	ORDER PROCESSING		TOTAL		
	EDUCATION				
	TEALE DATA CENTER		TEXTBOOK DISTRIBUTION	175	PROD
	TRANSPORTATION		EQUIPMENT FUTURE LIST	1	PROD
			CONSTRUCT. UNIT COST & DATA	10	PROD
			TRAFFIC SIGN LOG	0	PROD
	SOCIAL SERVICES		STATUS OF CONSTRUCTION PROJECT	0	PROD
			RENT SCHEDULE	7	PROD
	DEPARTMENT OF DEVELOPMENTAL SERVICES		ADOPTIONS RESOURCE REFERRAL CTR	11	PROD
**	ORDER PROCESSING		STATE HOSPITAL RPTS & REQUESTS	10	NEW
			TOTAL	214**	
	OTHER OPERATIONAL ASSISTANCE SYSTEMS				
	PUBLIC UTILITIES COMM		GRADE CROSSINGS (PROTECTION)	11	PROD
			GRADE CROSSINGS (MAINT	11	PROD
	TEALE DATA CENTER		DAILY DISK BACKUPS	0	PROD
			WEEKLY DISK BACKUPS	0	PROD
			BIWEEKLY DISKBACKUPS	0	PROD
			MONTHLY DISKBACKUPS	0	PROD

GENERIC TYPE REPORT

	CONTINUED	TOTAL CCST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS			
OTHER OPERATIONAL ASSISTANCE SYSTEMS			
TRANSPORTATION	CONTINUED		
	BRIDGE INVENTORY SYSTEMS	71	PROD
	AERONAUTICS-AIRPORT INVENTORY	8	PROD
	AERONAUTICS MAILING LABELS	2	PROD
	RIGHT OF WAY CONTROL SYSTEM	5	PROD
	RIGHT OF WAY MISC. PRODUCTION	15	PROD
	AIRPORT INVENTORY SYS. DEVELOP.	16	PROD
	CONVERT OFF OF EQUI REP TO COM	7	NEW
	ENGINEERING DATA SET SYSTEM	0	PROD
	RIGHT OF WAY EA LOG	0	PROD
	NON RENTAL EQUIPMENT	3	PROD
	R/W TENANT LISTING	0	PROD
	PARCEL PLANNING SYSTEM	0	PROD
	OTHER SYSTEMS	249	PROD
	MEASUREMENT OF COMPUTER WORKLD	0	PROD
	TOTAL	398**	
** WATER RESOURCES CONTROL BOARD			
MOTOR VEHICLES			
OTHER OPERATIONAL ASSISTANCE SYSTEMS			
PROPERTY MAINTENANCE			
TRANSPORTATION			
	LAND AND BUILDINGS INVENTORY	4	PROD
	LAND AND BUILD SPECIAL REPORT	8	PROD
	LAND AND BUILDING ENHANCEMENTS	21	NEW
	LAND AND BUILD MAINT STAT MODL	66	NEW
	DISTRICT VTCC	0	PROD
	BUSINESS ENTERPRISE PROGRAM	11	PROD
	BUSINESS ENTERPRISE PROGRAM	18	PROD
	PROPERTY RECORDS	3	PROD
	TOTAL	131**	
** PROPERTY MAINTENANCE			
STRUCTURE MAINTENANCE			
TRANSPORTATION			
	OFFICE ENGINEER, ATMS PROD.	0	PROD
	BRIDGE ENG. PROD. REPORT SYST.	35	PROD
	STRUCTURES MAINTENANCE SYSTEM	53	NEW
	TOTAL	97**	
** STRUCTURE MAINTENANCE			
TEXT/WORD PROCESSING			
GENERAL SERVICES			
TEALE DATA CENTER			
TRANSPORTATION			
	OSP TEXT MANAGEMENT SYSTEM	433	PROD
	TDC PROCESSORS MANUAL	0	PROD
	MAINTAIN A COUNT OF TRUCKS	8	PROD
	MAINT. COUNT OF TRUCKS	6	PROD
	ATM-AUTOMATED TEXT MANAGEMENT	228	NEW
	WORD PROCESSING	25	PROD
	TOTAL	700**	
** TEXT/WORD PROCESSING			
DEPARTMENT OF HEALTH SERVICES			
CONSUMER AFFAIRS			
TRAFFIC PROJECTION			
PUBLIC UTILITIES COMM			
TRANSPORTATION			
	DUMP TRUCK NETWORK	11	PROD
	MAINT. FED. TRAFFIC SIMULATION	0	PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

OPERATIONAL ASSISTANCE SYSTEMS TRAFFIC PROJECTION

CONTINUED

CONTINUED
MAINT. U.C. BERKELEY T.S.M. 9 PROD
TRAFFIC VOLUMES SYSTEM 176 PROD
FED. TRAFFIC SIMULATION MODELS 6 PROD
U.C. PEREKLEY TRAFFIC SIMULAT. 51 PROD
TRAFFIC VOLUMES SYSTEMS 2 PROD
EQUIPMENT CHC REPORT 0 PROD
TRAFFIC PERFORMANCE 269** PROD

** TRAFFIC PROJECTION

VEHICLE FLEET MANAGEMENT GENERAL SERVICES HIGHWAY PATROL TRANSPORTATION

FLEET ADMINISTRATION 86 PROD
FLEET MANAGEMENT MAINT. SCHED. 45 PROD
OFFICE OF EQUIP PRODUCTION SYS 198 PROD
OFFICE OF EQUIP PRODUCTION SYS 42 PROD
OPERATING EXPENSE MONITORING 19 NEW
OFF OF EQUIP FLEET MGMT ENHANM 20 NEW
REVISE FLEET MANAGEMENT SYSTEM 0 NEW
EQUIP WORK ORDER ALLTMT BY VEH 0 NEW
COMPUTATION OF FLEET CHARG RAT 0 NEW
EMPLOYEE PARKING 0 PROD
AUTOMOBILE MGMTMENT SYSTEM 0 PROD
VEH ASSIGNMENT & STORAGE REPOR 0 PROD
MTC EQUIP & RADIO INVENTORY 0 PROD
TOTAL 410**

** VEHICLE FLEET MANAGEMENT

VEHICLE FUEL CONSUMPTION TRANSPORTATION VEHICLE FUEL CONSUMPTION

BULK FUEL 0 PROD
TOTAL 0**

VEHICLE MAINTENANCE SYSTEM PARKS AND RECREATION TRANSPORTATION

EQUIPMENT REDESIGN 9 NEW
VEHICLE USAGE REPORT 0 PROD
TOTAL 0**

** VEHICLE MAINTENANCE SYSTEM

*** OPERATIONAL ASSISTANCE SYSTEMS

TOTAL 7,018***

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

BILLING SYSTEMS
BILLING SYSTEM - PERSON
GENERAL SERVICES
TEALE DATA CENTER
TRANSPORTATION

EMPLOYMENT DEV
DEPARTMENT OF DEVELOPMENTAL SERVICES

COMMUNICATIONS DIV WIRE SECTIO
BILLING SYSTEM
REPRODUCTION SUPPLY INVENTORY
REPRODUCTION SUMMARY
EMPLOYER BILLINGS
STATE HOSPITAL COST RPTG SYSTM
MR PARENTAL CONTRIBUTION
LPS BILLING
LPS BILLING
STATE HOSP COST RPTG SYSTEM
STATE HOSP COST RPTG SYSTEM
CRS MEDICARE REPORT
MR PARENTAL CONTRIBUTION
TOTAL

262
0
0
3
120
325
6
10
1
112
82
14
7
942**

PROD
PROD
PROD
PROD
NEW
PROD
NEW
PROD
PROD
PROD
NEW
PROD
PROD

** BILLING SYSTEM - PERSON

EDP BILLING
EDUCATION
GENERAL SERVICES

INDUSTRIAL RELATIONS
TEALE DATA CENTER

TRANSPORTATION

EDUCATIONAL DATA MGMT SYSTEMS
DGS-DPSO INTERNAL ACCTG SYSTEM
DGS-DPSO JOB COST LOG
LEASED SPACE INVOICES
DATA PROCESSING EQPT UTILTN RPT
BILLING SYSTEM
PLOTTER BILLING
BURST-DECOLATE REPORT
PROCESSING CHARGES
MACHINE ACCOUNTING (MAC)
(MAC) FEASIBILITY STUDY
UNIT MANAGEMENT PRORATION
(MAC) BATCH BILLING
REWRITE (MAC) CICS SUBSYSTEM
TELEPROCESSING & KEY PUNCH LOG
EDP BILLING SYSTEM
KEYPUNCH EXPENDITURE
CASHIERING
EDP EQUIPMENT BILLING
TOTAL

5
35
7
1
38
0
0
0
0
0
111
9
6
7
7
0
0
0
3
0
229**

PROD
PROD
PROD
PROD
PROD
PROD
PROD
PROD
PROD
PROD
NEW
PROD
PROD
PROD
PROD
PROD
PROD
PROD
PROD
PROD

CONSUMER AFFAIRS
MOTOR VEHICLES
EDP BILLING

RADIO CATALOG/MAINTENANCE/BILLING
GENERAL SERVICES
RADIO CATALOG/MAINTENANCE/BILLING

RADIO MAINTENANCE
TOTAL

110
110**

PROD

REAL ESTATE RENTAL MANAGEMENT/BILLING
TRANSPORTATION

RIGHT OF WAY RENTAL SYSTEM
RIGHT OF WAY RENTAL REPORTS
R/W EXCESS LAND ROSTER
R/W RENTAL

3
3
0
0

PROD
PROD
PROD
PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

CONTINUED

BILLING SYSTEMS
REAL ESTATE RENTAL MANAGEMENT/BILLING

** REAL ESTATE RENTAL MANAGEMENT/BILLING

SPECIAL SERVICE BILLING
GENERAL SERVICES
PERSONNEL BOARD

** SPECIAL SERVICE BILLING
TRANSPORTATION
SPECIAL SERVICE BILLING

TRANSFER COST BILLING
GENERAL SERVICES
TRANSPORTATION

** DEPARTMENT OF HEALTH SERVICES
TRANSFER COST BILLING

MISCELLANEOUS BILLING SYSTEM
CONSERVATION
TEALE DATA CENTER

TRANSPORTATION

WATER RESOURCES
REHABILITATION

** DEPARTMENT OF MENTAL HEALTH
MISCELLANEOUS BILLING SYSTEM

*** BILLING SYSTEMS

R/W RENTAL 3-DAY NOTICE
R/W RENT OUTDOOR ADVERT SGN PAR
TOTAL

SUPPORTIVE SERVICE DB8 AND 9
CLIENT BILLING
CLIENT BILLING
USER COST DISTRIBUTION REPORT
TOTAL

OSP ACCOUNTING SYSTEM
CAR POOL USAGE
MATERIALS LAB DAILY CHARGES
RCV-HEALTH RECOVERY SYSTEM
TOTAL

OIL AND GAS ASSESSMENTS
BILLING SYSTEM
BILLING SYSTEM
EDP ACCOUNTING SYSTEM
DAILY LAB CHARGES
CONTRACTOR BILLING SYSTEM
INDUSTRIALLY INJURED PROGRAM
INDUSTRIALLY INJURED PROGRAM
BILLING SYST FOR STATE HOSPIT
TOTAL

TOTAL

1,743***

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS		
ACCOUNTING - EDIT AND DATA BASE PREPARATION		
TRANSPORTATION		
ACCTG. EDITS & DATA BASE PREP	360	PROD
MAINT. ACCTG.EDITS & DATA BASE	170	PROD
PROJECT MASTER FILE (PMF)	6	PROD
ACCOUNTING BATCH PROCESS	2	PROD
ACCOUNTING PRE-EDIT	0	PROD
TOTAL	538**	
** ACCOUNTING - EDIT AND DATA BASE PREPARATION		
ACCOUNTING - FISCAL AND BUDGETING		
EDUCATION		
FINANCE		
HIGHWAY PATROL		
PARKS AND RECREATION		
PERSONNEL BOARD		
TEALE DATA CENTER		
TRANSPORTATION		
VOCATIONAL EDUCATION	147	PROD
FISCAL SYSTEMS OPERATIONS(ABS)	0	PROD
BUDGET OPERATIONS	170	PROD
DISTRIBUTION OF PERSONNEL SERV	2	PROD
BUDGET CROSSOVER	1	PROD
SCHEDULE 2 UPDATE	0	PROD
PROPERTY ACCOUNTING	0	PROD
BUDGETING	0	PROD
BUDGET CALLOT/EXPENDITURE LEDG	4	PROD
ACCOUNTING	0	PROD
OVERHAUL PRORATION SYSTEM	42	NEW
SIGNAL & LIGHTING BILL. SYSTEM	6	NEW
NEW ACCOUNTING SYSTEMS STUDY	0	NEW
ADMIN. MANAGEMENT SYSTEM	2	NEW
MCKINSEY & CO STUDY	82	NEW
ON-LINE BDGT. COST & DISPLAY	30	NEW
MONITORING SYSTEM REPORTS	6	NEW
COMPUTERIZE YEAR-END CLOSING	28	NEW
LAB. MAT. & RESEARCH	26	PROD
MONTHLY & ANNUAL FINANCIAL RE.	322	PROD
MAINT. MONTHLY & ANNUAL REPORT	21	PROD
MAINTAIN "FINPLAN"	8	NEW
LEGISLATIVE BUDGETING SYSTEM	521	PROD
ANNUAL REPORTS (78-79 FY)	14	PROD
AMS EXPENDITURES	0	PROD
COST ACCOUNTING SYSTEM	365	PROD
BUDGET DEVELOPMENT SYSTEM	9	PROD
BUDGET DEVELOPMENT SYSTEMS	14	PROD
COST RDTG & DATA COLLECT CR/DC	31	PROD
GROSS SALARY REPORT SYSTEM	0	NEW
TOTAL	1,851**	
EMPLOYMENT DEV		
REHABILITATION		
DEPARTMENT OF MENTAL HEALTH		
MOTOR VEHICLES		
ACCOUNTING - FISCAL AND BUDGETING		
** ACCOUNTING - DEPARTMENTAL FINANCIAL		
FORESTRY		
GENERAL SERVICES		
PARKS AND RECREATION		
TRANSPORTATION		
PAYROLL DISTRIBUTION	25	PROD
MANAGEMENT SERVICES	240	PROD
MISC ACCOUNTING	0	PROD
CASHIERING	0	PROD
EXPENDITURE ANALYSIS	0	PROD
OFFICE OF EQUIP PRODUCTION SYS	64	PROD

GENERIC TYPE REPORT

	CONTINUED	TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS			
ACCOUNTING - DEPARTMENTAL FINANCIAL	CONTINUED		
TREASURER			
WATER RESOURCES			
REHABILITATION			
SOCIAL SERVICES			
DEPARTMENT OF HEALTH SERVICES			
ACCOUNTING - DEPARTMENTAL FINANCIAL			
** ACCOUNTING - FUND	CONTINUED		
CONTROLLER			
DEPARTMENT OF DEVELOPMENTAL SERVICES			
** ACCOUNTING - FUND			
ACCOUNTING - MORTGAGE LOAN			
VETERANS AFFAIRS			
** ACCOUNTING - MORTGAGE LOAN			
ACCOUNTING - PROGRAM COST AND BUDGETING			
FORESTRY			
PERSONNEL BOARD			
TRANSPORTATION			
WATER RESOURCES			
ALCOHOL AND DRUG ABUSE			
REHABILITATION			
DEPARTMENT OF HEALTH SERVICES			
DEPARTMENT OF DEVELOPMENTAL SERVICES			
** ACCOUNTING - PROGRAM COST AND BUDGETING			
ACCOUNTING - PROGRAM COST/TIME REPORTING			
CORPORATIONS			
EDUCATION			
OFF OF EQUIP LABOR AND MATERLS			
A/T MONTHLY PAIDS			
PROGRAM COST ACCOUNTING SYSTEM			
ALLOTMENT EXPENDITURE LEDGER			
ALLOTMENT EXPENDITURE LEDGER			
FISCAL MANAGEMENT INFORMATION			
LRA-LONG RANGE ACCOUNTING SYST			
TOTAL			
FUND AND ACCOUNTING SYSTEM			
CRS PERSONAL DEPOSIT FUND			
TOTAL			
CAL-VET LOANS			
TOTAL			
ALLOTMENT EXPENDITURE			
COST ACCOUNTING			
MAT. MGMT. SYST. ACCT. SUBSYST			
RIGHT OF WAY CAPITAL PROG. SYS			
BUDGET MANAGEMENT REPORTS			
ACCOUNTING			
ACCOUNTING			
SPENDING PLAN-RUDGET			
RUDGET PREPARATION			
REPORT OF MAN YEARS WORKED			
EXPENDITURE MONITORING			
PERSONNEL EXPENDITURE MONITORING			
CORRECTION FOR EAS NOT MAS FIL			
TRAFFIC SIGNAL COSTS REPORT			
AUTOMATED RUDGET SYSTEM			
PROGRAM COST REPORT SYSTEM			
CASE SERVICE BILL SYSTEM			
CASE SERVICE BILL SYSTEM			
CCH-CONTRACT COUNTIES ENV HLTH			
FPR FAMILY PLANNING REPORT SYS			
RUDGET CONTROL SYSTEM			
TOTAL			
DEPARTMT TIME REPT/CTS ACT SY			
FISCAL SYSTEMS OPERATIONS(PCA)			

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS			
ACCOUNTING - PROGRAM COST/TIME REPORTING			
GENERAL SERVICES			
CONTINUED			
STATE POLICE			
ADMIN HEARING FUNCTIONAL TIME	9	PROD	
DGS BLDGS AND GROUNDS COST ACC	2	PROD	
DGS LOCAL ASST FUNCTIONAL TIME	22	PROD	
TIME AND COST ACCOUNTING SYSTEM	1	PROD	
REPRODUCT. SERV. SUSP. ACCT.	78	PROD	
STAFF TIME SHEET SUMMARY	8	PROD	
BULK FUEL ACCOUNTING SYSTEM	0	PROD	
TRANS PLANNING CHRGS-OTHR DIST	3	PROD	
COST AND BILLING	0	PROD	
COST AND BILLING	12	PROD	
COST AND BILLING	5	PROD	
TOTAL	298**		
INHERITANCE AND GIFT TAX ACCTG			
FEDERAL & STATE INCOME TAX-EFF	128	PROD	
SOCIAL SECURITY	17	PROD	
EMPLOYER ADDRESS INQUIRY	17	PROD	
EMPLOYER ACCOUNTING	386	PROD	
PROOF OF CREDIT	449	PROD	
EXPERIENCE RATINGS	26	PROD	
EMPLOYER RULINGS	30	PROD	
FRANCHISE TAX TAPES	48	PROD	
DI ELECTIVE COVERAGE ACCOUNT.	15	PROD	
AIRCRAFT	106	PROD	
AIRCRAFT & VESSELS	22	PROD	
AUDIT CELL ANALYSIS	0	PROD	
AUDIT SELECTION	1	PROD	
AUDIT STATISTICS	13	PROD	
BEVERAGE TAX	19	PROD	
CIGARETTE TAX	86	PROD	
SAMPLE SELECTION	15	PROD	
TIMBER TAX	30	PROD	
PIT--AUDIT	17	PROD	
PIT--SELF ASSESSMENT	0	PROD	
PIT--FILING ENFORCEMENT	0	PROD	
PIT--RESEARCH & STATISTICS	0	PROD	
BCT--ACCOUNTS RECEIVABLE	0	PROD	
BCT-AUDIT ACTIVITIES	0	PROD	
BCT-FILING ENFORCEMENT	0	NEW	
BCT-RESEARCH & STATISTICS	0	PROD	
SCTA-CLAIM PROCESSING	0	PROD	
SCTA-AUDIT ACTIVITIES	0	PROD	
SCTA-PFSEARCH & STATISTICS	0	PROD	
TOTAL	1,434**		
ACCOUNTING - TAX			
CONTROLLER			
FORESTRY			
PUR EMPL RET SYS			
EMPLOYMENT DEV			
EQUALIZATION			
FRANCHISE TAX			
ACCOUNTING - TAX			

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

CONTINUED

ACCOUNTING & FINANCIAL SYSTEMS

ACCOUNTING - ENCUMBRANCE
HIGHWAY PATROL
TEALE DATA CENTER
REHABILITATION

ENCUMBRANCE & EXPENDITURES
ACCOUNT PAYABLE 24 PROD
AUTOMATED ENCUMBRANCE REPORTIN 0 PROD
AUTOMATED ENCUMBRANCE REPORTIN 99 PROD
TOTAL 21 PROD
144**

** ACCOUNTING - ENCUMBRANCE

ACCOUNTS PAYABLE
EDUCATION

CHILD NUTRITION SERVICE BUREAU 146 PROD
CHILD NUTRITION SERVICES RUPEA 8 PROD
ACCOUNT PAYABLE 0 PROD
ACCOUNTING DOCUMENTS 0 PROD
TRIAL BALANCE 0 PROD
EQUIPMENT ACCOUNTS PAYABLE 19 NEW
UTILITY BILLING SYSTEM 14 PROD
UTILITY BILLING 1 PROD
REGISTER OF INVOICES 4 PROD
UTILITY BILLING 5 PROD
TOTAL 107**

** ACCOUNTS PAYABLE

ACCOUNTS RECEIVABLE
TEALE DATA CENTER
TRANSPORTATION

ACCOUNT RECEIVABLE 0 PROD
REGISTER OF INVOICES 0 PROD
ACCTS 91 82 AND 84 CASH SYSTEM 11 PROD
OFM616 RUDGET REPORTS 25 PROD
TOLL BRIDGE ACCOUNTS RECEIVABL 3 NEW
ACCTS RECEIVABLE BILL CHECK 0 PROD
ACCT RECEIVABLE 4 PROD
ACCTS RECEIVABLE SYSTEM 0 PROD
CCI-CA CORRECTIONAL INDUSTRIES 10 PROD
CASUALTY/COMPLIANCE A/R 0 NEW
ACCOUNTS RECEIVABLE 330 PROD
PETITIONS AND REFUNDS 0 PROD
PIT--ACCOUNTS RECEIVABLE 0 PROD
TOTAL 383**

DEPARTMENT OF HEALTH SERVICES

EQUALIZATION

FRANCHISE TAX
ACCOUNTS RECEIVABLE

0

**

BANK/FINANCIAL RECONCILIATION
FORESTRY
TEACHERS RETIREMENT SYS

OUTSTANDING CHECK LISTING 7 PROD
INVESTMENT ACCOUNTING SYSTEM 36 PROD
INVESTMENT ACCOUNTING SYSTEM 0 NEW
CTS BANK RECONCILIATION 930 PROD
BANK DEPOSIT RECONCILIATION 39 PROD
BANK RECONCILIATION 0 PROD
TOTAL 1,012**

TREASURER

MOTOR VEHICLES
BANK/FINANCIAL RECONCILIATION

**

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

CONTINUED

ACCOUNTING & FINANCIAL SYSTEMS

** BOND AND COUPON RECONCILIATION
TREASURER
BOND AND COUPON RECONCILIATION

CASH/FUNDS RECEIPT AND APPLICATION
PUB EMPL RET SYS
EQUALIZATION

MOTOR VEHICLES

** CASH/FUNDS RECEIPT AND APPLICATION

FINANCIAL FORECAST
CONTROLLER
FINANCE
DEPARTMENT OF HEALTH SERVICES

** FINANCIAL FORECAST

FUND APPORTIONMENT
EDUCATION

ALCOHOL AND DRUG ABUSE
DEPARTMENT OF MENTAL HEALTH
FOOD AND AGRICULTURE

** FUND APPORTIONMENT

INVESTMENT PORTFOLIO MANAGEMENT
PUB EMPL RET SYS
TREASURER
INVESTMENT PORTFOLIO MANAGEMENT

**

OVERHEAD ALLOCATION
TEALE DATA CENTER
TRANSPORTATION

** OVERHEAD ALLOCATION

BOND & COUPON RECONCILIATION
TOTAL

14 PROD
14**

SUBSIDIARY ACCOUNTING
ALLOCATION
DELINQUENCY
RETURN PROCESSING
SECURITY
PARKING CITATION PROCESS
VEHICLE ACCOUNTING
TOTAL

14 PROD
37 PROD
30 PROD
461 PROD
64 PROD
0 PROD
0 PROD
615**

LOCAL GOVT FINANCIAL REPORTS
FINANCIAL RESEARCH
BGS-BUDGET GREENSHEET
MRS-PREPAID HEA PLAN RATE SET
QAM-QUALITY ASSURANCE MONITORI
TOTAL

259 PROD
42 PROD
26 NEW
170 NEW
4 NEW
501**

SCHOOL APPORTIONMENTS AND RPTS
SCHOOL APPORTIONMENTS AND RPTS
ALLOCATION FORMULA
BUDGET CONTROL
MILK POOLING
TOTAL

320 PROD
19 PROD
2 PROD
6 PROD
80 PROD
427**

INVESTMENTS
INVESTMENT INFORMATION SYSTEM
TOTAL

50 PROD
5
55**

BILLING SYSTEM
OVERHEAD RATE
CARPOOL CARTAG SYSTEM
TOTAL

0
16 NEW
0 PROD
16**

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

ACCOUNTING & FINANCIAL SYSTEMS CONTINUED

**	PAYMENT/EXPENSE DISTRIBUTION MOTOR VEHICLES	DEPT ACCTG EXPENDITURE REPORT TOTAL	0 0**	PROD
**	PAYMENT/EXPENSE DISTRIBUTION			
**	PROGRAM REIMBURSEMENT - FEDERAL AND STATE HIGHWAY PATROL	CHP 431 OVERTIME GRANTS	2	PROD
	TRANSPORTATION	INTERSTATE COST EST. SYS.-PROD	3	PROD
	WATER RESOURCES	UTILITY COST ACCOUNTING SYSTEM	54	PROD
	SOCIAL SERVICES	FINANCIAL ACCOUNTING EXCHANGE	101	PROD
	STUDENT AID COMM	SCHOLARSHIP NEW APPLICANT	177	PROD
		SCHOLARSHIP RENEWAL	63	PROD
		COLLEGE OPPORTUNITY GRANT	141	PROD
		OCCUP EDUCATION & TRAINING GNT	27	PROD
		PAYMENT SYSTEM	104	PROD
		TOTAL	672**	
**	PROGRAM REIMBURSEMENT - FEDERAL AND STATE			
**	PROJECT MANAGEMENT AND BUDGETING			
	EDUCATION	VOC EDUC FIELD OPERATIONS	136	NEW
	HIGHWAY PATROL	DATA PROCESSING OPERATING EXP	4	PROD
	TRANSPORTATION	SUPPORT SERV (MISC) RATCH	9	PROD
		MAC BUDGET MONITOR. SYST.	8	NEW
		TEALE DATA CENTER NEEDS STUDY	1	NEW
		NEEDS STUDY	14	NEW
		BID OPENING	59	PROD
		RIGHT OF WAY SUPPORT PROG.MGMT	26	PROD
		RIGHT OF WAY EXCESS LANDS SYST	22	PROD
		RIGHT OF WAY MGMT. SYST. DEVEL	34	NEW
		EQUIP WORK ORDERS MGMT REP SYS	19	NEW
		DISTRICT 01 PILOT BUDGET	0	PROD
		ADMINISTRATIVE REPORTS	0	PROD
		STAFF AND MAINT MAN-YR SYSTEM	0	PROD
		ACCOUNTING OPEA WORKOVOR LIST	0	PROD
		DISTRICT RELOCATION ASSIST PGM	0	PROD
		MAINTENANCE MANAGEMENT	0	PROD
		DISTRICT MANAGEMENT INFORMATION	0	PROD
		TOTAL	332**	
**	PROJECT MANAGEMENT AND RUDGETING			
**	PROJECT MANAGEMENT, COSTING AND BILLING			
	TRANSPORTATION	DIST EDP UNIT BILLING	0	PROD
		UTILITY BILLING	6	PROD
		CSO MANAGEMENT SYSTEMS	105	PROD
		FPS-FAMILY PLANNING SYSTEM	12	PROD
		TOTAL	123**	
**	PROJECT MANAGEMENT, COSTING AND BILLING			
	WATER RESOURCES			
	DEPARTMENT OF HEALTH SERVICES			
	PROJECT MANAGEMENT, COSTING AND BILLING			

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

ACCOUNTING & FINANCIAL SYSTEMS CONTINUED

PROJECT PROGRESS PAYMENT CALCULATION
TRANSPORTATION

PROGRESS PAY (MAINT) 159 PROD
PROGRESS PAY DEVELOPMENT 77 NEW
WORKING DAYS CALENDAR 0 PROD
TOTAL 236**

** PROJECT PROGRESS PAYMENT CALCULATION

PROPERTY INVENTORY (FIXED ASSET ACCOUNTING)
CONTROLLER
FORESTRY
GENERAL SERVICES

UNCLAIMED PROPERTY ACCT SYSTEM 261 PROD
PROPERTY 27 PROD
REI REAL ESTATE 2 PROD
SPACE MGMT SPACE INVENTORY 8 PROD
CHP PROPERTY INVENTORY 7 PROD
ARTIFACTS INV 0 NEW
ACCOUNTING 0 PROD
STATE FURNISHED MATERIALS 0 PROD
NON-EXPENDABLE INVENTORY 0 PROD
R/W RENTAL SYSTEM 0 PROD
MAJOR EQUIPMENT REPORT 0 PROD
EQUIPMENT ACCOUNTING SYSTEM 14 PROD
PROPERTY EQUIPMENT INVENT HOSP 9 PROD
PROPERTY EQUIPMENT INVENT HOSP 0 PROD
TOTAL 328**

WATER RESOURCES
DEPARTMENT OF DEVELOPMENTAL SERVICES

** PROPERTY INVENTORY (FIXED ASSET ACCOUNTING)

VOUCHERS PAYABLE/RECONCILEMENT
DEPARTMENT OF HEALTH SERVICES
VOUCHERS PAYABLE/RECONCILEMENT

AVP-WIC AUTHORIZED VENDOR PROJ 175 NEW
TOTAL 175**

**

*** ACCOUNTING & FINANCIAL SYSTEMS

11,391***

TOTAL

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
OTHER SYSTEMS			
ACTUARIAL			
	PUB EMPL RET SYS		
	TEACHERS RETIREMENT SYS		
**	ACTUARIAL		
	ACTUARIAL VALUATION STUDIES	204	PROD
	VALUATION SYSTEM	25	PROD
	VALUATION SYSTEM	8	NEW
	TOTAL	237**	
	CARPPOOL PROCESSING		
	CARPPOOL MATCHING SYSTEM	20	PROD
	COMMUTER COMPUTER CARPOOL SYST	20	PROD
	TOTAL	43**	
**	CARPPOOL PROCESSING		
	DEMOGRAPHIC DISTRIBUTION		
	FINANCE		
	ALCOHOL AND DRUG ABUSE		
	POPULATION RESEARCH	127	PROD
	DRUNK DRIVING CONVICTIONS	1	PROD
	FOLLOW-UP PROJECT	4	PROD
	DRINKING DRIVER PROGRAM	13	NEW
	MANAGEMENT INFORMATION SYSTEM	13	PROD
	ALCOHOL RELATED ARRESTS	3	PROD
	TOTAL	161**	
**	DEMOGRAPHIC DISTRIBUTION		
	ELECTIONS		
	SECRETARY OF STATE	45	PROD
	SEMI-OFFICIAL CANVASS	27	
	MEDIA EQUIPMENT	72**	
**	ELECTIONS		
	TRANSPORTATION		
	PRODUCTION OF FEDERAL BILL	33	PROD
	MAINT. FED. CURRENT BILL. SYST	30	PROD
	FEDERAL AID REPORTS	36	PROD
	TOTAL	99**	
**	FHWA		
	MISCELLANEOUS TAXABLE PROPERTY REPORTING		
	MOTOR VEHICLES		
**	MISCELLANEOUS TAXABLE PROPERTY REPORTING		
	MISCELLANEOUS PRODUCTION MAINTENANCE		
	HIGHWAY PATROL		
	HOUSE TRAILER PROCESS	0	PROD
	CO ASSESSOR SPECIAL VEHICLE	0	NEW
	TOTAL	0**	
**	MISCELLANEOUS PRODUCTION MAINTENANCE		
	DATA GUIDANCE (TSO)	18	
	DATA GUIDANCE (TSO)	27	
	LISTING OF SCHEDULED JOBS	1	PROD
	SUPPORT SERV (MISC) TSO	0	PROD
	TOTAL	55**	
**	MISCELLANEOUS PRODUCTION MAINTENANCE		
***	OTHER SYSTEMS		
	TOTAL	667***	

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

0	NEW
35	PROD
7	NEW
2	NEW
15	NEW
19	NEW
0	PROD
117	PROD
92	PROD
46	NEW
60	NEW
393**	

SYSTEM DEVELOPMENT
AFS ORGANIZATIONAL UNIT COST
INFORMATION & EDUCATION ACTIV
ADMIN. MANAGEMENT SYSTEM (AMS)
SPECIAL 1 TIME REQUESTS
EXTENDED DURATION
RECOMPUTATIONS
EMPLOYER CHARGEBACKS
GRANT PROGRAM RESOURCE ALLOCAT
DEMAND REQUESTS TOTAL

**

2

TRANSPORTATION

2

**

OFFICE OF TRAFFIC SAFETY
DEPARTMENT OF MENTAL HEALTH

422***

TOTAL

SAFETY REPORTS
SAFETY REPORTS DEVELOPMENT
TOTAL

5	PROD
24	NEW
29**	

422***

TOTAL

cc: Members of the Legislature
Office of the Governor
Office of the Lieutenant Governor
Secretary of State
State Controller
State Treasurer
Legislative Analyst
Director of Finance
Assembly Office of Research
Senate Office of Research
Assembly Majority/Minority Consultants
Senate Majority/Minority Consultants
California State Department Heads
Capitol Press Corps

